Zoltan Zimboras

List of Publications by Year
in descending order

50	1,165	430874	454955
papers	citations	18	30
		h-index	g-index

50	50	50	897
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	A Cost-Efficient Approach towards Computational Fluid Dynamics Simulations on Quantum Devices. Applied Sciences (Switzerland), 2022, 12, 2873.	2.5	5
2	Quantum distance to uncontrollability and quantum speed limits. Physical Review A, 2022, 105, .	2.5	4
3	Space-efficient binary optimization for variational quantum computing. Npj Quantum Information, 2022, 8, .	6.7	13
4	Error mitigation for variational quantum algorithms through mid-circuit measurements. Physical Review A, 2022, 105, .	2.5	18
5	Fermion Sampling: A Robust Quantum Computational Advantage Scheme Using Fermionic Linear Optics and Magic Input States. PRX Quantum, 2022, 3, .	9.2	10
6	Universality verification for a set of quantum gates. Physical Review A, 2022, 105, .	2.5	4
7	Concept of Orbital Entanglement and Correlation in Quantum Chemistry. Journal of Chemical Theory and Computation, 2021, 17, 79-95.	5.3	32
8	Exploring Embeddings for MIMO Channel Decoding on Quantum Annealers. Infocommunications Journal, 2021, 13, 11-17.	0.8	3
9	CLARIFICATION ON THEORETICAL PREDICTIONS FOR GENERAL RELATIVISTIC EFFECTS IN FROZEN SPIN STORAGE RINGS. , 2021, , 133-149.		0
10	Quantum phases of collective SU(3) spin systems with bipartite symmetry. Physical Review B, 2021, 103, .	3.2	0
11	Evaluation of Quantum Annealer Performance via the Massive MIMO Problem. IEEE Access, 2021, 9, 131658-131671.	4.2	7
12	Photonic Quantum Policy Learning in OpenAI Gym. , 2021, , .		2
13	Central charges of aperiodic holographic tensor-network models. Physical Review A, 2020, 102, .	2.5	10
14	Entanglement scaling in fermion chains with a localization-delocalization transition and inhomogeneous modulations. Physical Review B, 2020, 102, .	3.2	9
15	On the universality of the quantum approximate optimization algorithm. Quantum Information Processing, 2020, 19, 1.	2.2	54
16	Quantum Optimization for the Graph Coloring Problem with Space-Efficient Embedding. , 2020, , .		27
17	Probing criticality in quantum spin chains with neural networks. Journal of Physics Complexity, 2020, 1, 03LT01.	2.2	5
18	Sublogarithmic behaviour of the entanglement entropy in fermionic chains. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 093105.	2.3	7

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19	Long term measurements from the MÃ¡tra Gravitational and Geophysical Laboratory. European Physical Journal: Special Topics, 2019, 228, 1693-1743.	2.6	5
20	Short-time behavior of continuous-time quantum walks on graphs. Physical Review A, 2019, 100, .	2.5	3
21	Entanglement negativity bounds for fermionic Gaussian states. Physical Review B, 2018, 97, .	3.2	43
22	The bilinearâ€"biquadratic model on the complete graph. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 105201.	2.1	4
23	Entanglement entropy of disordered quantum wire junctions. Journal of Statistical Mechanics: Theory and Experiment, 2018, 2018, 123106.	2.3	6
24	Quantification of GR effects in muon g-2, EDM and other spin precession experiments. Classical and Quantum Gravity, 2018, 35, 175003.	4.0	12
25	Precision bounds for gradient magnetometry with atomic ensembles. Physical Review A, 2018, 97, .	2.5	31
26	Temperature driven quenches in the Ising model: appearance of negative RÃ©nyi mutual information. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 264005.	2.1	24
27	Universal Extensions of Restricted Classes of Quantum Operations. Physical Review Letters, 2017, 119, 220502.	7.8	16
28	A fermionic de Finetti theorem. Journal of Mathematical Physics, 2017, 58, 122204.	1.1	5
29	Chiral quantum walks. Physical Review A, 2016, 93, .	2.5	36
30	Entanglement negativity in two-dimensional free lattice models. Physical Review B, 2016, 93, .	3.2	51
31	Symmetry criteria for quantum simulability of effective interactions. Physical Review A, 2015, 92, .	2.5	24
32	On squares of representations of compact Lie algebras. Journal of Mathematical Physics, 2015, 56, 081702.	1.1	11
33	On the partial transpose of fermionic Gaussian states. New Journal of Physics, 2015, 17, 053048.	2.9	92
34	On the NP-completeness of the Hartree-Fock method for translationally invariant systems. Journal of Chemical Physics, 2014, 141, 234103.	3.0	4
35	Entanglement negativity in the harmonic chain out of equilibrium. New Journal of Physics, 2014, 16, 123020.	2.9	104
36	A dynamic systems approach to fermions and their relation to spins. EPJ Quantum Technology, 2014, 1, .	6.3	21

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37	Area-law violation for the mutual information in a nonequilibrium steady state. Physical Review A, 2014, 89, .	2.5	36
38	Quantum Transport Enhancement by Time-Reversal Symmetry Breaking. Scientific Reports, 2013, 3, 2361.	3.3	49
39	Entanglement entropy in quantum spin chains with broken reflection symmetry. Physical Review A, 2010, 82, .	2.5	25
40	Time asymptotics and entanglement generation of Clifford quantum cellular automata. Journal of Mathematical Physics, 2010, 51, 015203.	1.1	32
41	Entanglement entropy in aperiodic singlet phases. Journal of Statistical Mechanics: Theory and Experiment, 2007, 2007, P04004-P04004.	2.3	17
42	Entanglement entropy of aperiodic quantum spin chains. Europhysics Letters, 2007, 79, 37001.	2.0	50
43	The von Neumann entropy asymptotics in multidimensional fermionic systems. Journal of Mathematical Physics, 2007, 48, 102110.	1.1	25
44	Entanglement in theXXspin chain with an energy current. Physical Review A, 2005, 71, .	2.5	49
45	On the sharpness of the zero-entropy-density conjecture. Journal of Mathematical Physics, 2005, 46, 123301.	1.1	15
46	Fermionic systems for quantum information people. Journal of Physics A: Mathematical and Theoretical, 0, , .	2.1	10
47	Modeling and mitigation of cross-talk effects in readout noise with applications to the Quantum Approximate Optimization Algorithm. Quantum - the Open Journal for Quantum Science, 0, 5, 464.	0.0	20
48	Mitigation of readout noise in near-term quantum devices by classical post-processing based on detector tomography. Quantum - the Open Journal for Quantum Science, 0, 4, 257.	0.0	127
49	Tensor network models of AdS/qCFT. Quantum - the Open Journal for Quantum Science, 0, 6, 643.	0.0	6
50	Does causal dynamics imply local interactions?. Quantum - the Open Journal for Quantum Science, 0, 6, 748.	0.0	2