

# Mario Ziman

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/4696339/mario-ziman-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

71  
papers

1,619  
citations

22  
h-index

38  
g-index

76  
ext. papers

1,880  
ext. citations

2.7  
avg, IF

4.85  
L-index

#	Paper	IF	Citations
71	Thermalizing quantum machines: dissipation and entanglement. <i>Physical Review Letters</i> , <b>2002</b> , 88, 097905	7.4	187
70	Diluting quantum information: An analysis of information transfer in system-reservoir interactions. <i>Physical Review A</i> , <b>2002</b> , 65,	2.6	115
69	An invitation to quantum incompatibility. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2016</b> , 49, 123001	2	82
68	Towards quantum-based privacy and voting. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2006</b> , 349, 75-81	2.3	82
67	All (qubit) decoherences: Complete characterization and physical implementation. <i>Physical Review A</i> , <b>2005</b> , 72,	2.6	76
66	Description of Quantum Dynamics of Open Systems Based on Collision-Like Models. <i>Open Systems and Information Dynamics</i> , <b>2005</b> , 12, 81-91	0.4	76
65	The Mathematical Language of Quantum Theory: From Uncertainty to Entanglement <b>2011</b> ,		74
64	Simulation of indivisible qubit channels in collision models. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2012</b> , 45, 154006	1.3	70
63	Probabilistic implementation of universal quantum processors. <i>Physical Review A</i> , <b>2002</b> , 65,	2.6	59
62	Divisibility of quantum dynamical maps and collision models. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	50
61	Process positive-operator-valued measure: A mathematical framework for the description of process tomography experiments. <i>Physical Review A</i> , <b>2008</b> , 77,	2.6	44
60	Concurrence versus purity: Influence of local channels on Bell states of two qubits. <i>Physical Review A</i> , <b>2005</b> , 72,	2.6	43
59	Entanglement, purity, and energy: Two qubits versus two modes. <i>Physical Review A</i> , <b>2006</b> , 74,	2.6	36
58	Maximally incompatible quantum observables. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2014</b> , 378, 1695-1699	2.3	33
57	Toward protocols for quantum-ensured privacy and secure voting. <i>Physical Review A</i> , <b>2011</b> , 84,	2.6	31
56	Implementation of quantum maps by programmable quantum processors. <i>Physical Review A</i> , <b>2002</b> , 66,	2.6	30
55	Local two-qubit entanglement-annihilating channels. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	28

54	Entanglement-annihilating and entanglement-breaking channels. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2010</b> , 43, 275306	2	27
53	Correlation-assisted quantum communication. <i>Physical Review A</i> , <b>2003</b> , 67,	2.6	27
52	Entanglement sensitivity to signal attenuation and amplification. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	26
51	Approximate programmable quantum processors. <i>Physical Review A</i> , <b>2006</b> , 73,	2.6	26
50	Dissociation and annihilation of multipartite entanglement structure in dissipative quantum dynamics. <i>Physical Review A</i> , <b>2013</b> , 88,	2.6	25
49	Optimal Probabilistic Storage and Retrieval of Unitary Channels. <i>Physical Review Letters</i> , <b>2019</b> , 122, 170502	2.6	19
48	Saturation of Coffman-Kundu-Wootters inequalities via quantum homogenization. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , <b>2003</b> , 5, S439-S441		19
47	Realization of positive-operator-valued measures using measurement-assisted programmable quantum processors. <i>Physical Review A</i> , <b>2005</b> , 72,	2.6	19
46	Bipartite entanglement-annihilating maps: Necessary and sufficient conditions. <i>Physical Review A</i> , <b>2013</b> , 88,	2.6	17
45	Unambiguous identification of coherent states: Searching a quantum database. <i>Physical Review A</i> , <b>2007</b> , 76,	2.6	17
44	Entanglement-induced state ordering under local operations. <i>Physical Review A</i> , <b>2006</b> , 73,	2.6	17
43	Optimal single-shot strategies for discrimination of quantum measurements. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	16
42	Unambiguous comparison of ensembles of quantum states. <i>Physical Review A</i> , <b>2008</b> , 77,	2.6	16
41	Incomplete quantum process tomography and principle of maximal entropy. <i>Physical Review A</i> , <b>2008</b> , 78,	2.6	15
40	Single-shot discrimination of quantum unitary processes. <i>Journal of Modern Optics</i> , <b>2010</b> , 57, 253-259	1.1	14
39	Improving the performance of probabilistic programmable quantum processors. <i>Physical Review A</i> , <b>2004</b> , 69,	2.6	14
38	Incompatible measurements on quantum causal networks. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	12
37	Discrimination of quantum observables using limited resources. <i>Physical Review A</i> , <b>2008</b> , 77,	2.6	12

36	Process reconstruction: From unphysical to physical maps via maximum likelihood. <i>Physical Review A</i> , <b>2005</b> , 72,	2.6	11
35	Divisibility of qubit channels and dynamical maps. <i>Quantum - the Open Journal for Quantum Science</i> , <b>3</b> , 144		11
34	Programmable Quantum Gate Arrays. <i>Fortschritte Der Physik</i> , <b>2001</b> , 49, 987	5.7	10
33	Programmable Quantum Processors. <i>Quantum Information Processing</i> , <b>2006</b> , 5, 313-420	1.6	9
32	Unambiguous comparison of unitary channels. <i>Physical Review A</i> , <b>2009</b> , 79,	2.6	8
31	Unambiguous comparison of quantum measurements. <i>Physical Review A</i> , <b>2009</b> , 80,	2.6	8
30	Optimal entanglement-assisted discrimination of quantum measurements. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	7
29	Distance to boundary and minimum-error discrimination. <i>Physical Review A</i> , <b>2014</b> , 89,	2.6	7
28	Approximating incompatible von Neumann measurements simultaneously. <i>Physical Review A</i> , <b>2010</b> , 82,	2.6	7
27	Coexistence of quantum operations. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2009</b> , 42, 365302		7
26	Unambiguous identification of coherent states. II. Multiple resources. <i>Physical Review A</i> , <b>2009</b> , 79,	2.6	6
25	Optimality of private quantum channels. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2007</b> , 40, 5415-5426	2	6
24	Equally distant, partially entangled alphabet states for quantum channels. <i>Physical Review A</i> , <b>2000</b> , 62,	2.6	6
23	Incompatibility of unbiased qubit observables and Pauli channels. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	4
22	Two notes on Grover's search: Programming and discriminating. <i>European Physical Journal Plus</i> , <b>2014</b> , 129, 1	3.1	4
21	Exploring boundaries of quantum convex structures: Special role of unitary processes. <i>Physical Review A</i> , <b>2015</b> , 92,	2.6	4
20	When non-Gaussian states are Gaussian: Generalization of nonseparability criterion for continuous variables. <i>Physical Review A</i> , <b>2006</b> , 74,	2.6	4
19	Reconstruction of Superoperators from Incomplete Measurements. <i>Foundations of Physics</i> , <b>2006</b> , 36, 127-156	1.2	4

18	REALIZATION OF UNITARY MAPS VIA PROBABILISTIC PROGRAMMABLE QUANTUM PROCESSORS. <i>International Journal of Quantum Information</i> , <b>2003</b> , 01, 527-541	0.8	4
17	Process reconstruction from incomplete and/or inconsistent data. <i>European Physical Journal D</i> , <b>2005</b> , 32, 215-222	1.3	4
16	Open system dynamics of simple collision models <b>2010</b> ,		4
15	Popescu-Rohrlich box implementation in general probabilistic theory of processes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2020</b> , 384, 126323	2.3	3
14	Repeatable quantum memory channels. <i>Physical Review A</i> , <b>2008</b> , 78,	2.6	3
13	On the Local Unitary Equivalence of States of Multi-partite Systems. <i>Fortschritte Der Physik</i> , <b>2001</b> , 49, 1123	5.7	3
12	Process estimation in the presence of time-invariant memory effects. <i>Physical Review A</i> , <b>2015</b> , 92,	2.6	2
11	Probability-based comparison of quantum states. <i>Physical Review A</i> , <b>2012</b> , 85,	2.6	2
10	Probabilistic programmable quantum processors. <i>Fortschritte Der Physik</i> , <b>2004</b> , 52, 1056-1063	5.7	2
9	Microscopic description of information transfer from a qudit to reservoir. <i>Fortschritte Der Physik</i> , <b>2003</b> , 51, 280-287	5.7	2
8	Publisher's Note: Realization of positive-operator-valued measures using measurement-assisted programmable quantum processors [Phys. Rev. 72, 022343 (2005)]. <i>Physical Review A</i> , <b>2005</b> , 72,	2.6	2
7	Probabilistic storage and retrieval of qubit phase gates. <i>Physical Review A</i> , <b>2020</b> , 102,	2.6	2
6	Quantum finite-depth memory channels: Case study. <i>Physical Review A</i> , <b>2009</b> , 80,	2.6	1
5	Direct estimation of decoherence rates. <i>Physical Review A</i> , <b>2012</b> , 86,	2.6	1
4	Equivalent programmable quantum processors. <i>Optics Communications</i> , <b>2010</b> , 283, 822-826	2	1
3	Universality and optimality of programmable quantum processors. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , <b>2006</b> , 26, 277-291		0
2	Estimation of Potentially Unphysical Maps. <i>Open Systems and Information Dynamics</i> , <b>2006</b> , 13, 255-262	0.4	
1	Quantum Memory Channels in Quantum Optics <b>2012</b> , 533-552		

