

Mario Ziman

List of Publications by Year in Descending Order

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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	Popescu-Rohrlich box implementation in general probabilistic theory of processes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020 , 384, 126323	2.3	3
70	Probabilistic storage and retrieval of qubit phase gates. <i>Physical Review A</i> , 2020 , 102,	2.6	2
69	Optimal Probabilistic Storage and Retrieval of Unitary Channels. <i>Physical Review Letters</i> , 2019 , 122, 170502	2.6	19
68	Incompatibility of unbiased qubit observables and Pauli channels. <i>Physical Review A</i> , 2018 , 97,	2.6	4
67	Divisibility of quantum dynamical maps and collision models. <i>Physical Review A</i> , 2017 , 96,	2.6	50
66	Incompatible measurements on quantum causal networks. <i>Physical Review A</i> , 2016 , 93,	2.6	12
65	An invitation to quantum incompatibility. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016 , 49, 123001	2	82
64	Exploring boundaries of quantum convex structures: Special role of unitary processes. <i>Physical Review A</i> , 2015 , 92,	2.6	4
63	Process estimation in the presence of time-invariant memory effects. <i>Physical Review A</i> , 2015 , 92,	2.6	2
62	Entanglement sensitivity to signal attenuation and amplification. <i>Physical Review A</i> , 2014 , 90,	2.6	26
61	Optimal entanglement-assisted discrimination of quantum measurements. <i>Physical Review A</i> , 2014 , 90,	2.6	7
60	Two notes on Grover's search: Programming and discriminating. <i>European Physical Journal Plus</i> , 2014 , 129, 1	3.1	4
59	Distance to boundary and minimum-error discrimination. <i>Physical Review A</i> , 2014 , 89,	2.6	7
58	Optimal single-shot strategies for discrimination of quantum measurements. <i>Physical Review A</i> , 2014 , 90,	2.6	16
57	Maximally incompatible quantum observables. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2014 , 378, 1695-1699	2.3	33
56	Dissociation and annihilation of multipartite entanglement structure in dissipative quantum dynamics. <i>Physical Review A</i> , 2013 , 88,	2.6	25
55	Bipartite entanglement-annihilating maps: Necessary and sufficient conditions. <i>Physical Review A</i> , 2013 , 88,	2.6	17

54	Probability-based comparison of quantum states. <i>Physical Review A</i> , 2012 , 85,	2.6	2
53	Simulation of indivisible qubit channels in collision models. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012 , 45, 154006	1.3	70
52	Direct estimation of decoherence rates. <i>Physical Review A</i> , 2012 , 86,	2.6	1
51	Local two-qubit entanglement-annihilating channels. <i>Physical Review A</i> , 2012 , 85,	2.6	28
50	Quantum Memory Channels in Quantum Optics 2012 , 533-552		
49	The Mathematical Language of Quantum Theory: From Uncertainty to Entanglement 2011 ,		74
48	Toward protocols for quantum-ensured privacy and secure voting. <i>Physical Review A</i> , 2011 , 84,	2.6	31
47	Approximating incompatible von Neumann measurements simultaneously. <i>Physical Review A</i> , 2010 , 82,	2.6	7
46	Entanglement-annihilating and entanglement-breaking channels. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010 , 43, 275306	2	27
45	Single-shot discrimination of quantum unitary processes. <i>Journal of Modern Optics</i> , 2010 , 57, 253-259	1.1	14
44	Equivalent programmable quantum processors. <i>Optics Communications</i> , 2010 , 283, 822-826	2	1
43	Open system dynamics of simple collision models 2010 ,		4
42	Quantum finite-depth memory channels: Case study. <i>Physical Review A</i> , 2009 , 80,	2.6	1
41	Coexistence of quantum operations. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009 , 42, 365302		7
40	Unambiguous comparison of unitary channels. <i>Physical Review A</i> , 2009 , 79,	2.6	8
39	Unambiguous identification of coherent states. II. Multiple resources. <i>Physical Review A</i> , 2009 , 79,	2.6	6
38	Unambiguous comparison of quantum measurements. <i>Physical Review A</i> , 2009 , 80,	2.6	8
37	Repeatable quantum memory channels. <i>Physical Review A</i> , 2008 , 78,	2.6	3

36	Discrimination of quantum observables using limited resources. <i>Physical Review A</i> , 2008 , 77,	2.6	12
35	Incomplete quantum process tomography and principle of maximal entropy. <i>Physical Review A</i> , 2008 , 78,	2.6	15
34	Unambiguous comparison of ensembles of quantum states. <i>Physical Review A</i> , 2008 , 77,	2.6	16
33	Process positive-operator-valued measure: A mathematical framework for the description of process tomography experiments. <i>Physical Review A</i> , 2008 , 77,	2.6	44
32	Unambiguous identification of coherent states: Searching a quantum database. <i>Physical Review A</i> , 2007 , 76,	2.6	17
31	Optimality of private quantum channels. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007 , 40, 5415-5426	2	6
30	Approximate programmable quantum processors. <i>Physical Review A</i> , 2006 , 73,	2.6	26
29	Entanglement-induced state ordering under local operations. <i>Physical Review A</i> , 2006 , 73,	2.6	17
28	When non-Gaussian states are Gaussian: Generalization of nonseparability criterion for continuous variables. <i>Physical Review A</i> , 2006 , 74,	2.6	4
27	Entanglement, purity, and energy: Two qubits versus two modes. <i>Physical Review A</i> , 2006 , 74,	2.6	36
26	Universality and optimality of programmable quantum processors. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 2006 , 26, 277-291		0
25	Towards quantum-based privacy and voting. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 349, 75-81	2.3	82
24	Estimation of Potentially Unphysical Maps. <i>Open Systems and Information Dynamics</i> , 2006 , 13, 255-262	0.4	
23	Programmable Quantum Processors. <i>Quantum Information Processing</i> , 2006 , 5, 313-420	1.6	9
22	Reconstruction of Superoperators from Incomplete Measurements. <i>Foundations of Physics</i> , 2006 , 36, 127-156	1.2	4
21	All (qubit) decoherences: Complete characterization and physical implementation. <i>Physical Review A</i> , 2005 , 72,	2.6	76
20	Process reconstruction from incomplete and/or inconsistent data. <i>European Physical Journal D</i> , 2005 , 32, 215-222	1.3	4
19	Description of Quantum Dynamics of Open Systems Based on Collision-Like Models. <i>Open Systems and Information Dynamics</i> , 2005 , 12, 81-91	0.4	76

18	Concurrence versus purity: Influence of local channels on Bell states of two qubits. <i>Physical Review A</i> , 2005 , 72,	2.6	43
17	Realization of positive-operator-valued measures using measurement-assisted programmable quantum processors. <i>Physical Review A</i> , 2005 , 72,	2.6	19
16	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> , 2005 , 72,	2.6	2
15	Process reconstruction: From unphysical to physical maps via maximum likelihood. <i>Physical Review A</i> , 2005 , 72,	2.6	11
14	Improving the performance of probabilistic programmable quantum processors. <i>Physical Review A</i> , 2004 , 69,	2.6	14
13	Probabilistic programmable quantum processors. <i>Fortschritte Der Physik</i> , 2004 , 52, 1056-1063	5.7	2
12	REALIZATION OF UNITARY MAPS VIA PROBABILISTIC PROGRAMMABLE QUANTUM PROCESSORS. <i>International Journal of Quantum Information</i> , 2003 , 01, 527-541	0.8	4
11	Saturation of Coffman-Kundu-Wootters inequalities via quantum homogenization. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2003 , 5, S439-S441		19
10	Microscopic description of information transfer from a qudit to reservoir. <i>Fortschritte Der Physik</i> , 2003 , 51, 280-287	5.7	2
9	Correlation-assisted quantum communication. <i>Physical Review A</i> , 2003 , 67,	2.6	27
8	Thermalizing quantum machines: dissipation and entanglement. <i>Physical Review Letters</i> , 2002 , 88, 097905	5.4	187
7	Implementation of quantum maps by programmable quantum processors. <i>Physical Review A</i> , 2002 , 66,	2.6	30
6	Diluting quantum information: An analysis of information transfer in system-reservoir interactions. <i>Physical Review A</i> , 2002 , 65,	2.6	115
5	Probabilistic implementation of universal quantum processors. <i>Physical Review A</i> , 2002 , 65,	2.6	59
4	On the Local Unitary Equivalence of States of Multi-partite Systems. <i>Fortschritte Der Physik</i> , 2001 , 49, 1123	5.7	3
3	Programmable Quantum Gate Arrays. <i>Fortschritte Der Physik</i> , 2001 , 49, 987	5.7	10
2	Equally distant, partially entangled alphabet states for quantum channels. <i>Physical Review A</i> , 2000 , 62,	2.6	6
1	Divisibility of qubit channels and dynamical maps. <i>Quantum - the Open Journal for Quantum Science</i> , 3 , 144		11

