

# Karol Bartkiewicz

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,087  
citations

361296

20  
h-index

414303

32  
g-index

51  
all docs

51  
docs citations

51  
times ranked

740  
citing authors

#	ARTICLE	IF	CITATIONS
1	Entanglement quantification from collective measurements processed by machine learning. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 446, 128270.	0.9	3
2	Accuracy of Entanglement Detection via Artificial Neural Networks and Human-Designed Entanglement Witnesses. Physical Review Applied, 2021, 15, .	1.5	11
3	Experimental hierarchy and optimal robustness of quantum correlations of two-qubit states with controllable white noise. Physical Review A, 2021, 104, .	1.0	8
4	Experimental kernel-based quantum machine learning in finite feature space. Scientific Reports, 2020, 10, 12356.	1.6	42
5	Rotation-time symmetry in bosonic systems and the existence of exceptional points in the absence of $\mathbb{P}$ symmetry. Scientific Reports, 2020, 10, 19906.	1.6	6
6	Experimental Diagnostics of Entanglement Swapping by a Collective Entanglement Test. Physical Review Applied, 2020, 14, .	1.5	4
7	Interplay between strong and weak measurement: comparison of three experimental approaches to weak value estimation. Journal of Optics (United Kingdom), 2020, 22, 065202.	1.0	0
8	Measuring distances in Hilbert space by many-particle interference. Physical Review A, 2019, 99, .	1.0	7
9	Experimentally attacking quantum money schemes based on quantum retrieval games. Scientific Reports, 2019, 9, 16318.	1.6	5
10	Experimental Measurement of the Hilbert-Schmidt Distance between Two-Qubit States as a Means for Reducing the Complexity of Machine Learning. Physical Review Letters, 2019, 123, 260501.	2.9	11
11	Experimental hybrid quantum-classical reinforcement learning by boson sampling: how to train a quantum cloner. Optics Express, 2019, 27, 32454.	1.7	8
12	Experimental tests of coherence and entanglement conservation under unitary evolutions. Physical Review A, 2018, 97, .	1.0	19
13	Two methods for measuring Bell nonlocality via local unitary invariants of two-qubit systems in Hong-Ou-Mandel interferometers. Physical Review A, 2018, 97, .	1.0	4
14	Creating a switchable optical cavity with controllable quantum-state mapping between two modes. Scientific Reports, 2018, 8, 14740.	1.6	6
15	Implementation of an efficient linear-optical quantum router. Scientific Reports, 2018, 8, 13480.	1.6	8
16	Experimental measurement of a nonlinear entanglement witness by hyperentangling two-qubit states. Physical Review A, 2018, 98, .	1.0	7
17	Direct method for measuring and witnessing quantum entanglement of arbitrary two-qubit states through Hong-Ou-Mandel interference. Physical Review A, 2017, 95, .	1.0	13
18	Bell nonlocality and fully entangled fraction measured in an entanglement-swapping device without quantum state tomography. Physical Review A, 2017, 95, .	1.0	21

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19	Experimental characterization of photon-number noise in Rarity-Tapster-Loudon-type interferometers. Physical Review A, 2017, 96, .	1.0	3
20	Experimental quantum forgery of quantum optical money. Npj Quantum Information, 2017, 3, .	2.8	34
21	Experimental temporal quantum steering. Scientific Reports, 2016, 6, 38076.	1.6	34
22	Measuring evolution of a photon in an interferometer with spectrally resolved modes. Physical Review A, 2016, 94, .	1.0	8
23	Experimental measurement of collective nonlinear entanglement witness for two qubits. Physical Review A, 2016, 94, .	1.0	15
24	Reply to "Comment on "One-state vector formalism for the evolution of a quantum state through nested Mach-Zehnder interferometers" Physical Review A, 2016, 93, .	1.0	6
25	Temporal steering and security of quantum key distribution with mutually unbiased bases against individual attacks. Physical Review A, 2016, 93, .	1.0	45
26	Priority Choice Experimental Two-Qubit Tomography: Measuring One by One All Elements of Density Matrices. Scientific Reports, 2016, 6, 19610.	1.6	21
27	Increasing relative nonclassicality quantified by standard entanglement potentials by dissipation and unbalanced beam splitting. Physical Review A, 2015, 92, .	1.0	32
28	Quantifying entanglement of a two-qubit system via measurable and invariant moments of its partially transposed density matrix. Physical Review A, 2015, 91, .	1.0	25
29	Scheme for a linear-optical controlled-phase gate with programmable phase shift. Journal of Optics (United Kingdom), 2015, 17, 125202.	1.0	1
30	One-state vector formalism for the evolution of a quantum state through nested Mach-Zehnder interferometers. Physical Review A, 2015, 91, .	1.0	27
31	Method for universal detection of two-photon polarization entanglement. Physical Review A, 2015, 91, .	1.0	25
32	Experimental Implementation of Optimal Linear-Optical Controlled-Unitary Gates. Physical Review Letters, 2015, 114, 153602.	2.9	12
33	Statistical mixtures of states can be more quantum than their superpositions: Comparison of nonclassicality measures for single-qubit states. Physical Review A, 2015, 91, .	1.0	61
34	Optimal two-qubit tomography based on local and global measurements: Maximal robustness against errors as described by condition numbers. Physical Review A, 2014, 90, .	1.0	44
35	Using quantum routers to implement quantum message authentication and Bell-state manipulation. Physical Review A, 2014, 90, .	1.0	19
36	Efficient amplification of photonic qubits by optimal quantum cloning. Physical Review A, 2014, 89, .	1.0	13

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37	Entanglement-assisted scheme for nondemolition detection of the presence of a single photon. <i>Physical Review A</i> , 2013, 87, .	1.0	20
38	Experimental Eavesdropping Based on Optimal Quantum Cloning. <i>Physical Review Letters</i> , 2013, 110, 173601.	2.9	44
39	Entanglement estimation from Bell inequality violation. <i>Physical Review A</i> , 2013, 88, .	1.0	70
40	Two-qubit mixed states more entangled than pure states: Comparison of the relative entropy of entanglement for a given nonlocality. <i>Physical Review A</i> , 2013, 87, .	1.0	63
41	Measuring nonclassical correlations of two-photon states. <i>Physical Review A</i> , 2013, 87, .	1.0	15
42	Resource-efficient linear-optical quantum router. <i>Physical Review A</i> , 2013, 87, .	1.0	65
43	Entanglement-based linear-optical qubit amplifier. <i>Physical Review A</i> , 2013, 88, .	1.0	45
44	State-dependent linear-optical qubit amplifier. <i>Physical Review A</i> , 2013, 88, .	1.0	6
45	Direct method for measuring of purity, superfidelity, and subfidelity of photonic two-qubit mixed states. <i>Physical Review A</i> , 2013, 88, .	1.0	21
46	Experimental linear-optical implementation of a multifunctional optimal qubit cloner. <i>Physical Review A</i> , 2012, 85, .	1.0	28
47	Optimal cloning of arbitrary mirror-symmetric distributions on the Bloch sphere: a proposal for practical photonic realization. <i>Physica Scripta</i> , 2012, T147, 014003.	1.2	3
48	Optimal cloning of qubits given by an arbitrary axisymmetric distribution on the Bloch sphere. <i>Physical Review A</i> , 2010, 82, .	1.0	19
49	Optimal mirror phase-covariant cloning. <i>Physical Review A</i> , 2009, 80, .	1.0	29
50	Teleportation of qubit states through dissipative channels: Conditions for surpassing the no-cloning limit. <i>Physical Review A</i> , 2007, 76, .	1.0	51