

# Karol Bartkiewicz

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4960034/publications.pdf>

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 estimation from Bell inequality violation. <i>Physical Review A</i> , 2013, 88, .	1.0	70
2	Resource-efficient linear-optical quantum router. <i>Physical Review A</i> , 2013, 87, .	1.0	65
3	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
4	Statistical mixtures of states can be more quantum than their superpositions: Comparison of nonclassicality measures for single-qubit states. <i>Physical Review A</i> , 2015, 91, .	1.0	61
5	Teleportation of qubit states through dissipative channels: Conditions for surpassing the no-cloning limit. <i>Physical Review A</i> , 2007, 76, .	1.0	51
6	Entanglement-based linear-optical qubit amplifier. <i>Physical Review A</i> , 2013, 88, .	1.0	45
7	Temporal steering and security of quantum key distribution with mutually unbiased bases against individual attacks. <i>Physical Review A</i> , 2016, 93, .	1.0	45
8	Experimental Eavesdropping Based on Optimal Quantum Cloning. <i>Physical Review Letters</i> , 2013, 110, 173601.	2.9	44
9	Optimal two-qubit tomography based on local and global measurements: Maximal robustness against errors as described by condition numbers. <i>Physical Review A</i> , 2014, 90, .	1.0	44
10	Experimental kernel-based quantum machine learning in finite feature space. <i>Scientific Reports</i> , 2020, 10, 12356.	1.6	42
11	Experimental temporal quantum steering. <i>Scientific Reports</i> , 2016, 6, 38076.	1.6	34
12	Experimental quantum forgery of quantum optical money. <i>Npj Quantum Information</i> , 2017, 3, .	2.8	34
13	Increasing relative nonclassicality quantified by standard entanglement potentials by dissipation and unbalanced beam splitting. <i>Physical Review A</i> , 2015, 92, .	1.0	32
14	Optimal mirror phase-covariant cloning. <i>Physical Review A</i> , 2009, 80, .	1.0	29
15	Experimental linear-optical implementation of a multifunctional optimal qubit cloner. <i>Physical Review A</i> , 2012, 85, .	1.0	28
16	One-state vector formalism for the evolution of a quantum state through nested Mach-Zehnder interferometers. <i>Physical Review A</i> , 2015, 91, .	1.0	27
17	Quantifying entanglement of a two-qubit system via measurable and invariant moments of its partially transposed density matrix. <i>Physical Review A</i> , 2015, 91, .	1.0	25
18	Method for universal detection of two-photon polarization entanglement. <i>Physical Review A</i> , 2015, 91, .	1.0	25

#	ARTICLE	IF	CITATIONS
19	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
20	Priority Choice Experimental Two-Qubit Tomography: Measuring One by One All Elements of Density Matrices. <i>Scientific Reports</i> , 2016, 6, 19610.	1.6	21
21	Bell nonlocality and fully entangled fraction measured in an entanglement-swapping device without quantum state tomography. <i>Physical Review A</i> , 2017, 95, .	1.0	21
22	Entanglement-assisted scheme for nondemolition detection of the presence of a single photon. <i>Physical Review A</i> , 2013, 87, .	1.0	20
23	Optimal cloning of qubits given by an arbitrary axisymmetric distribution on the Bloch sphere. <i>Physical Review A</i> , 2010, 82, .	1.0	19
24	Using quantum routers to implement quantum message authentication and Bell-state manipulation. <i>Physical Review A</i> , 2014, 90, .	1.0	19
25	Experimental tests of coherence and entanglement conservation under unitary evolutions. <i>Physical Review A</i> , 2018, 97, .	1.0	19
26	Measuring nonclassical correlations of two-photon states. <i>Physical Review A</i> , 2013, 87, .	1.0	15
27	Experimental measurement of collective nonlinear entanglement witness for two qubits. <i>Physical Review A</i> , 2016, 94, .	1.0	15
28	Efficient amplification of photonic qubits by optimal quantum cloning. <i>Physical Review A</i> , 2014, 89, .	1.0	13
29	Direct method for measuring and witnessing quantum entanglement of arbitrary two-qubit states through Hong-Ou-Mandel interference. <i>Physical Review A</i> , 2017, 95, .	1.0	13
30	Experimental Implementation of Optimal Linear-Optical Controlled-Unitary Gates. <i>Physical Review Letters</i> , 2015, 114, 153602.	2.9	12
31	Experimental Measurement of the Hilbert-Schmidt Distance between Two-Qubit States as a Means for Reducing the Complexity of Machine Learning. <i>Physical Review Letters</i> , 2019, 123, 260501.	2.9	11
32	Accuracy of Entanglement Detection via Artificial Neural Networks and Human-Designed Entanglement Witnesses. <i>Physical Review Applied</i> , 2021, 15, .	1.5	11
33	Measuring evolution of a photon in an interferometer with spectrally resolved modes. <i>Physical Review A</i> , 2016, 94, .	1.0	8
34	Implementation of an efficient linear-optical quantum router. <i>Scientific Reports</i> , 2018, 8, 13480.	1.6	8
35	Experimental hybrid quantum-classical reinforcement learning by boson sampling: how to train a quantum cloner. <i>Optics Express</i> , 2019, 27, 32454.	1.7	8
36	Experimental hierarchy and optimal robustness of quantum correlations of two-qubit states with controllable white noise. <i>Physical Review A</i> , 2021, 104, .	1.0	8

#	ARTICLE	IF	CITATIONS
37	Experimental measurement of a nonlinear entanglement witness by hyperentangling two-qubit states. Physical Review A, 2018, 98, .	1.0	7
38	Measuring distances in Hilbert space by many-particle interference. Physical Review A, 2019, 99, .	1.0	7
39	State-dependent linear-optical qubit amplifier. Physical Review A, 2013, 88, .	1.0	6
40	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
41	Creating a switchable optical cavity with controllable quantum-state mapping between two modes. Scientific Reports, 2018, 8, 14740.	1.6	6
42	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
43	Experimentally attacking quantum money schemes based on quantum retrieval games. Scientific Reports, 2019, 9, 16318.	1.6	5
44	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
45	Experimental Diagnostics of Entanglement Swapping by a Collective Entanglement Test. Physical Review Applied, 2020, 14, .	1.5	4
46	Optimal cloning of arbitrary mirror-symmetric distributions on the Bloch sphere: a proposal for practical photonic realization. Physica Scripta, 2012, T147, 014003.	1.2	3
47	Experimental characterization of photon-number noise in Rarity-Tapster-Loudon-type interferometers. Physical Review A, 2017, 96, .	1.0	3
48	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
49	Scheme for a linear-optical controlled-phase gate with programmable phase shift. Journal of Optics (United Kingdom), 2015, 17, 125202.	1.0	1
50	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