

Carlo Ottaviani

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

3,240
citations

304743

22
h-index

377865

34
g-index

39
all docs

39
docs citations

39
times ranked

1602
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in quantum cryptography. <i>Advances in Optics and Photonics</i> , 2020, 12, 1012.	25.5	848
2	Fundamental limits of repeaterless quantum communications. <i>Nature Communications</i> , 2017, 8, 15043.	12.8	827
3	High-rate measurement-device-independent quantum cryptography. <i>Nature Photonics</i> , 2015, 9, 397-402.	31.4	334
4	Polarization Qubit Phase Gate in Driven Atomic Media. <i>Physical Review Letters</i> , 2003, 90, 197902.	7.8	184
5	Polarization phase gate with a tripod atomic system. <i>Physical Review A</i> , 2004, 70, .	2.5	164
6	Theory of channel simulation and bounds for private communication. <i>Quantum Science and Technology</i> , 2018, 3, 035009.	5.8	111
7	Continuous-variable measurement-device-independent quantum key distribution: Composable security against coherent attacks. <i>Physical Review A</i> , 2018, 97, .	2.5	70
8	Quantum phase-gate operation based on nonlinear optics: Full quantum analysis. <i>Physical Review A</i> , 2006, 73, .	2.5	60
9	Finite-size analysis of measurement-device-independent quantum cryptography with continuous variables. <i>Physical Review A</i> , 2017, 96, .	2.5	58
10	Two-way quantum cryptography at different wavelengths. <i>Physical Review A</i> , 2014, 89, .	2.5	55
11	Continuous-variable quantum cryptography with an untrusted relay: Detailed security analysis of the symmetric configuration. <i>Physical Review A</i> , 2015, 91, .	2.5	53
12	Cross phase modulation in a five-level atomic medium: semiclassical theory. <i>European Physical Journal D</i> , 2006, 40, 281-296.	1.3	39
13	Reply to 'Discrete and continuous variables for measurement-device-independent quantum cryptography'. <i>Nature Photonics</i> , 2015, 9, 773-775.	31.4	37
14	Two-way Gaussian quantum cryptography against coherent attacks in direct reconciliation. <i>Physical Review A</i> , 2015, 92, .	2.5	36
15	Adiabatic splitting, transport, and self-trapping of a Bose-Einstein condensate in a double-well potential. <i>Physical Review A</i> , 2010, 81, .	2.5	34
16	General immunity and superadditivity of two-way Gaussian quantum cryptography. <i>Scientific Reports</i> , 2016, 6, 22225.	3.3	34
17	Parameter Estimation with Almost No Public Communication for Continuous-Variable Quantum Key Distribution. <i>Physical Review Letters</i> , 2018, 120, 220505.	7.8	33
18	Long-Distance Continuous-Variable Quantum Key Distribution With Quantum Scissors. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2020, 26, 1-12.	2.9	32

#	ARTICLE	IF	CITATIONS
19	Terahertz Quantum Cryptography. IEEE Journal on Selected Areas in Communications, 2020, 38, 483-495.	14.0	30
20	Discrete-Modulation Continuous-Variable Quantum Key Distribution Enhanced by Quantum Scissors. IEEE Journal on Selected Areas in Communications, 2020, 38, 506-516.	14.0	28
21	Covariance Matrices under Bell-like Detections. Open Systems and Information Dynamics, 2013, 20, 1350011.	1.2	26
22	Modular network for high-rate quantum conferencing. Communications Physics, 2019, 2, .	5.3	25
23	Securing the future internet of things with post-quantum cryptography. Security and Privacy, 2022, 5, .	2.7	21
24	Assessment of a quantum phase-gate operation based on nonlinear optics. Physical Review A, 2006, 74, .	2.5	14
25	Gaussian one-way thermal quantum cryptography with finite-size effects. Physical Review A, 2018, 98, .	2.5	14
26	Creating single collective atomic excitations via spontaneous Raman emission in inhomogeneously broadened systems: Beyond the adiabatic approximation. Physical Review A, 2009, 79, .	2.5	12
27	Gaussian two-mode attacks in one-way quantum cryptography. Physical Review A, 2017, 95, .	2.5	12
28	Secret key capacity of the thermal-loss channel: improving the lower bound. , 2016, , .		9
29	Multipartite entanglement swapping and mechanical cluster states. Physical Review A, 2019, 99, .	2.5	8
30	Long-distance continuous-variable measurement-device-independent quantum key distribution with postselection. Physical Review Research, 2020, 2, .	3.6	7
31	Implementation of a three-qubit quantum error-correction code in a cavity-QED setup. Physical Review A, 2010, 82, .	2.5	6
32	Single-photon frequency conversion in nonlinear crystals. Physical Review A, 2013, 88, .	2.5	6
33	Quantum cryptography with an ideal local relay. , 2015, , .		4
34	Improving the lower bound to the secret-key capacity of the thermal amplifier channel. European Physical Journal D, 2019, 73, 1.	1.3	4
35	Environment-assisted bosonic quantum communications. Npj Quantum Information, 2021, 7, .	6.7	4
36	Quantum Theory of a Polarization Phase Gate in an Atomic Tripod Configuration. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2005, 99, 264.	0.6	1

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37	A PROPOSAL FOR AN OPTICAL IMPLEMENTATION OF A UNIVERSAL QUANTUM PHASE GATE. International Journal of Quantum Information, 2005, 03, 245-250.	1.1	0
38	A proposal for the implementation of a quantum phase gate in a five-level atomic medium. Laser Physics, 2006, 16, 1491-1500.	1.2	0
39	CV-MDI-QKD with coherent state: beyond one-mode Gaussian attacks. IOP SciNotes, 2020, 1, 025202.	0.8	0