Marcos Curty

List of Publications by Year
in descending order

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77 papers	5,805 citations	126907 33 h-index	98798 67 g-index
77 all docs	77 docs citations	77 times ranked	2497 citing authors

#	Article	IF	Citations
1	Improved finite-key security analysis of quantum key distribution against Trojan-horse attacks. Quantum Science and Technology, 2022, 7, 035021.	5.8	12
2	Measurement-device-independent quantum key distribution with leaky sources. Scientific Reports, 2021, 11, 1678.	3.3	16
3	Secure quantum key distribution with a subset of malicious devices. Npj Quantum Information, 2021, 7, .	6.7	9
4	Tight finite-key security for twin-field quantum key distribution. Npj Quantum Information, 2021, 7, .	6.7	34
5	A quantum leap in security. Physics Today, 2021, 74, 36-41.	0.3	8
6	Practical Quantum Key Distribution That is Secure Against Side Channels. Physical Review Applied, 2021, 15, .	3.8	20
7	Experimental Quantum Key Distribution Secure Against Malicious Devices. Physical Review Applied, 2021, 15, .	3.8	7
8	Zero-error attack against coherent-one-way quantum key distribution. New Journal of Physics, 2021, 23, 093005.	2.9	10
9	Foiling zero-error attacks against coherent-one-way quantum key distribution. Physical Review A, 2021, 104, .	2.5	3
10	Quantum key distribution with correlated sources. Science Advances, 2020, 6, .	10.3	52
11	Upper Security Bounds for Coherent-One-Way Quantum Key Distribution. Physical Review Letters, 2020, 125, 260510.	7.8	14
12	Practical decoy-state method for twin-field quantum key distribution. New Journal of Physics, 2019, 21, 073001.	2.9	34
13	Simple security proof of twin-field type quantum key distribution protocol. Npj Quantum Information, 2019, 5, .	6.7	145
14	Proof-of-Principle Experimental Demonstration of Twin-Field Type Quantum Key Distribution. Physical Review Letters, 2019, 123, 100506.	7.8	142
15	Quantum key distribution with flawed and leaky sources. Npj Quantum Information, 2019, 5, .	6.7	45
16	Quantum key distribution with setting-choice-independently correlated light sources. Npj Quantum Information, 2019, 5, .	6.7	29
17	Foiling covert channels and malicious classical post-processing units in quantum key distribution. Npj Quantum Information, 2019, 5, .	6.7	20
18	Beating the repeaterless bound with adaptive measurement-device-independent quantum key distribution. New Journal of Physics, 2019, 21, 113052.	2.9	3

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19	Laser-seeding Attack in Quantum Key Distribution. Physical Review Applied, 2019, 12, .	3.8	56
20	Long-distance device-independent quantum key distribution. Scientific Reports, 2019, 9, 17749.	3.3	15
21	Asymmetric twin-field quantum key distribution. New Journal of Physics, 2019, 21, 113032.	2.9	30
22	Security of quantum key distribution with iterative sifting. Quantum Science and Technology, 2018, 3, 014002.	5.8	6
23	Security proof for a simplified Bennett-Brassard 1984 quantum-key-distribution protocol. Physical Review A, 2018, 98, .	2.5	36
24	Secure quantum communication in the presence of phase- and polarization-dependent loss. Physical Review A, 2018, 98, .	2.5	11
25	Characterizing multi-photon quantum interference with practical light sources and threshold single-photon detectors. New Journal of Physics, 2018, 20, 043018.	2.9	15
26	Finite-key security analysis for quantum key distribution with leaky sources. New Journal of Physics, 2018, 20, 083027.	2.9	28
27	Quantum cryptography with malicious devices. , 2018, , .		0
28	Experimental measurement-device-independent quantum digital signatures over a metropolitan network. Physical Review A, 2017, 95, .	2.5	52
29	Quantum key distribution secure against partly malicious devices. , 2017, , .		2
30	Insecurity of Detector-Device-Independent Quantum Key Distribution. Physical Review Letters, 2016, 117, 250505.	7.8	46
31	Measurement-device-independent quantum digital signatures. Physical Review A, 2016, 94, .	2.5	51
32	Decoy-state quantum key distribution with a leaky source. New Journal of Physics, 2016, 18, 065008.	2.9	69
33	Finite-key security analysis of quantum key distribution with imperfect light sources. New Journal of Physics, 2015, 17, 093011.	2.9	46
34	Passive Decoy-State Quantum Key Distribution with Coherent Light. Entropy, 2015, 17, 4064-4082.	2.2	5
35	Bridging the gap between theory and practice in quantum cryptography. , 2015, , .		0
36	Discrete and continuous variables for measurement-device-independent quantum cryptography. Nature Photonics, 2015, 9, 772-773.	31.4	44

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37	Ultra-fast quantum randomness generation by accelerated phase diffusion in a pulsed laser diode. Optics Express, 2014, 22, 1645.	3.4	114
38	Loss-tolerant quantum cryptography with imperfect sources. Physical Review A, 2014, 90, .	2.5	136
39	Finite-key analysis for measurement-device-independent quantum key distribution. Nature Communications, 2014, 5, 3732.	12.8	303
40	Experimental Unconditionally Secure Bit Commitment. Physical Review Letters, 2014, 112, 010504.	7.8	47
41	Secure quantum key distribution. Nature Photonics, 2014, 8, 595-604.	31.4	880
42	Concise security bounds for practical decoy-state quantum key distribution. Physical Review A, 2014, 89, .	2.5	248
43	Know your enemy. Nature Physics, 2014, 10, 479-480.	16.7	3
44	Practical aspects of measurement-device-independent quantum key distribution. New Journal of Physics, 2013, 15, 113007.	2.9	128
45	Practical Measurement Device Independent Quantum Key Distribution. , 2013, , .		0
46	Device-Independent Quantum Key Distribution. , 2012, , .		2
47	Security of Distributed-Phase-Reference Quantum Key Distribution. Physical Review Letters, 2012, 109, 260501.	7.8	36
48	Measurement-Device-Independent Quantum Key Distribution. Physical Review Letters, 2012, 108, 130503.	7.8	1,510
49	True random numbers from amplified quantum vacuum. Optics Express, 2011, 19, 20665.	3.4	128
50	Heralded-qubit amplifiers for practical device-independent quantum key distribution. Physical Review A, 2011, 84, .	2.5	103
51	Passive preparation of BB84 signal states with coherent light. Progress in Informatics, 2011, , 57.	0.2	2
52	Passive Decoy State Quantum Key Distribution with Coherent Light. , 2010, , .		0
53	Passive sources for the Bennett-Brassard 1984 quantum-key-distribution protocol with practical signals. Physical Review A, 2010, 82, .	2.5	17
54	Implementation of two-party protocols in the noisy-storage model. Physical Review A, 2010, 81, .	2.5	38

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55	Passive decoy-state quantum key distribution with practical light sources. Physical Review A, 2010, 81, .	2.5	67
56	Passive Decoy State Quantum Key Distribution. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2010, , 132-141.	0.3	0
57	Upper bounds for the secure key rate of the decoy-state quantum key distribution. Physical Review A, 2009, 79, .	2.5	7
58	Upper bounds for the security of differential-phase-shift quantum key distribution with weak coherent states. , 2009, , .		0
59	Detector decoy quantum key distribution. New Journal of Physics, 2009, 11, 045008.	2.9	27
60	Non-Poissonian statistics from Poissonian light sources with application to passive decoy state quantum key distribution. Optics Letters, 2009, 34, 3238.	3.3	56
61	Comment on â€œArbitrated quantum-signature schemeâ€. Physical Review A, 2008, 77, .	2.5	76
62	Effect of detector dead times on the security evaluation of differential-phase-shift quantum key distribution against sequential attacks. Physical Review A, 2008, 77, .	2.5	18
63	Single-photon quantum key distribution in the presence of loss. Physical Review A, 2007, 75, .	2.5	6
64	Upper bound on the secret key rate distillable from effective quantum correlations with imperfect detectors. Physical Review A, 2006, 73, .	2.5	13
65	One-way quantum key distribution: Simple upper bound on the secret key rate. Physical Review A, 2006, 74, .	2.5	23
66	Experimentally realizable quantum comparison of coherent states and its applications. Physical Review A, 2006, 74, .	2.5	108
67	Detecting quantum correlations for quantum key distribution. , 2005, 5631, 9.		1
68	Detecting two-party quantum correlations in quantum-key-distribution protocols. Physical Review A, 2005, 71, .	2.5	44
69	Intercept-resend attacks in the Bennett-Brassard 1984 quantum-key-distribution protocol with weak coherent pulses. Physical Review A, 2005, 71, .	2.5	25
70	Effect of finite detector efficiencies on the security evaluation of quantum key distribution. Physical Review A, 2004, 69, .	2.5	23
71	Entanglement as a Precondition for Secure Quantum Key Distribution. Physical Review Letters, 2004, 92, 217903.	7.8	245
72	Complete hierarchies of efficient approximations to problems in entanglement theory. Physical Review A, 2004, 70, .	2.5	76

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73	Quantum authentication with unitary coding sets. Journal of Modern Optics, 2003, 50, 1035-1047.	1.3	4
74	Quantum authentication with unitary coding sets. Journal of Modern Optics, 2003, 50, 1035-1047.	1.3	1
75	Qubit authentication. Physical Review A, 2002, 66, .	2.5	56
76	Quantum authentication of classical messages. Physical Review A, 2001, 64, .	2.5	100
77	Security of quantum key distribution with intensity correlations. Quantum - the Open Journal for Quantum Science, 0, 5, 602.	0.0	19