

Marcin PawÅ,owski

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

1,948
citations

361045

20
h-index

264894

42
g-index

70
all docs

70
docs citations

70
times ranked

1020
citing authors

#	ARTICLE	IF	CITATIONS
1	Information causality as a physical principle. <i>Nature</i> , 2009, 461, 1101-1104.	13.7	545
2	Semi-device-independent security of one-way quantum key distribution. <i>Physical Review A</i> , 2011, 84, .	1.0	194
3	Security proof for cryptographic protocols based only on the monogamy of Bell's inequality violations. <i>Physical Review A</i> , 2010, 82, .	1.0	111
4	Semi-device-independent randomness certification using n quantum random access codes. <i>Physical Review A</i> , 2012, 85, .	1.0	90
5	Weak randomness in device-independent quantum key distribution and the advantage of using high-dimensional entanglement. <i>Physical Review A</i> , 2013, 88, .	1.0	74
6	Entanglement-assisted random access codes. <i>Physical Review A</i> , 2010, 81, .	1.0	70
7	Monogamy of Bell's Inequality Violations in Nonsignaling Theories. <i>Physical Review Letters</i> , 2009, 102, 030403.	2.9	65
8	Recovering part of the boundary between quantum and nonquantum correlations from information causality. <i>Physical Review A</i> , 2009, 80, .	1.0	63
9	State independent contextuality advances one-way communication. <i>New Journal of Physics</i> , 2019, 21, 093057.	1.2	41
10	Certifying an Irreducible 1024-Dimensional Photonic State Using Refined Dimension Witnesses. <i>Physical Review Letters</i> , 2018, 120, 230503.	2.9	36
11	Semi-device-independent self-testing of unsharp measurements. <i>Physical Review Research</i> , 2020, 2, .	1.3	35
12	Experimental Tests of Classical and Quantum Dimensionality. <i>Physical Review Letters</i> , 2014, 112, 140401.	2.9	33
13	Connections between Mutually Unbiased Bases and Quantum Random Access Codes. <i>Physical Review Letters</i> , 2018, 121, 050501.	2.9	31
14	Hyperbits: The information quasiparticles. <i>Physical Review A</i> , 2012, 85, .	1.0	25
15	Testing dimension and nonclassicality in communication networks. <i>Physical Review A</i> , 2015, 92, .	1.0	24
16	Experimentally feasible semi-device-independent certification of four-outcome positive-operator-valued measurements. <i>Physical Review A</i> , 2019, 100, .	1.0	24
17	Non-local setting and outcome information for violation of Bell's inequality. <i>New Journal of Physics</i> , 2010, 12, 083051.	1.2	23
18	Tight Bell inequalities with no quantum violation from qubit unextendible product bases. <i>Physical Review A</i> , 2012, 85, .	1.0	23

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19	Spatial versus sequential correlations for random access coding. <i>Physical Review A</i> , 2016, 93, .	1.0	23
20	Elemental and tight monogamy relations in nonsignaling theories. <i>Physical Review A</i> , 2014, 90, .	1.0	22
21	Degree of entanglement as a physically ill-posed problem: The case of entanglement with vacuum. <i>Physical Review A</i> , 2006, 73, .	1.0	20
22	Free randomness amplification using bipartite chain correlations. <i>Physical Review A</i> , 2014, 90, .	1.0	20
23	Device-independent randomness extraction from an arbitrarily weak min-entropy source. <i>Physical Review A</i> , 2014, 90, .	1.0	20
24	A strategy for quantum algorithm design assisted by machine learning. <i>New Journal of Physics</i> , 2014, 16, 073017.	1.2	19
25	Quantum Bidding in Bridge. <i>Physical Review X</i> , 2014, 4, .	2.8	19
26	Properties of dimension witnesses and their semidefinite programming relaxations. <i>Physical Review A</i> , 2014, 90, .	1.0	18
27	Complementarity between entanglement-assisted and quantum distributed random access code. <i>Physical Review A</i> , 2017, 95, .	1.0	18
28	Relationship between semi- and fully-device-independent protocols. <i>Physical Review A</i> , 2013, 87, .	1.0	15
29	Dimensional discontinuity in quantum communication complexity at dimension seven. <i>Physical Review A</i> , 2017, 95, .	1.0	15
30	When Are Popescu-Rohrlich Boxes and Random Access Codes Equivalent?. <i>Physical Review Letters</i> , 2014, 113, 100401.	2.9	14
31	Robustness of quantum-randomness expansion protocols in the presence of noise. <i>Physical Review A</i> , 2013, 88, .	1.0	12
32	Increased certification of semi-device independent random numbers using many inputs and more post-processing. <i>New Journal of Physics</i> , 2016, 18, 065004.	1.2	12
33	On the security of semi-device-independent QKD protocols. <i>Quantum Information Processing</i> , 2018, 17, 131.	1.0	12
34	Detection efficiency and noise in a semi-device-independent randomness-extraction protocol. <i>Physical Review A</i> , 2015, 91, .	1.0	11
35	Completely device-independent quantum key distribution. <i>Physical Review A</i> , 2016, 94, .	1.0	11
36	Comcryptâ€“Lightweight ANS-Based Compression and Encryption. <i>IEEE Transactions on Information Forensics and Security</i> , 2021, 16, 3859-3873.	4.5	11

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37	Device- and semi-“device-independent random numbers based on noninequality paradox. Physical Review A, 2015, 92, .	1.0	10
38	Robust amplification of Santha-Vazirani sources with three devices. Physical Review A, 2015, 91, .	1.0	10
39	Reformulating noncontextuality inequalities in an operational approach. Physical Review A, 2016, 94, .	1.0	10
40	The speed of quantum and classical learning for performing the k th root of NOT. New Journal of Physics, 2009, 11, 113018.	1.2	9
41	Device-independent witness of arbitrary-dimensional quantum systems employing binary-outcome measurements. Physical Review A, 2018, 98, .	1.0	9
42	Quantum randomness protected against detection loophole attacks. Quantum Information Processing, 2021, 20, 1.	1.0	8
43	Amplifying the Randomness of Weak Sources Correlated With Devices. IEEE Transactions on Information Theory, 2017, 63, 7592-7611.	1.5	7
44	Quantum-mechanical machinery for rational decision-making in classical guessing game. Scientific Reports, 2016, 6, 21424.	1.6	6
45	Effects of Polychlorinated Pesticides and Their Metabolites on Phospholipid Organization in Model Microbial Membranes. Journal of Physical Chemistry B, 2018, 122, 12017-12030.	1.2	6
46	Structure of quantum and broadcasting nonlocal correlations. Physical Review A, 2015, 92, .	1.0	5
47	Device-independent quantum key distribution based on measurement inputs. Physical Review A, 2015, 92, .	1.0	5
48	Detection-efficiency loophole and the Pusey-Barrett-Rudolph theorem. Physical Review A, 2015, 91, .	1.0	5
49	Quantum nonlocality via local contextuality with qubit-qubit entanglement. Physical Review A, 2016, 93, .	1.0	4
50	Maximal non-classicality in multi-setting Bell inequalities. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 145301.	0.7	4
51	Random access codes and nonlocal resources. Physical Review A, 2017, 96, .	1.0	4
52	Information Causality without Concatenation. Physical Review Letters, 2021, 126, 220403.	2.9	4
53	Reply to “Comment on ‘Security proof for cryptographic protocols based only on the monogamy of Bell’s inequality violations’”. Physical Review A, 2012, 85, .	1.0	3
54	Activation of entanglement in teleportation. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 435301.	0.7	3

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55	Tight bound on the classical value of generalized Clauser-Horne-Shimony-Holt games. <i>Physical Review A</i> , 2016, 94, .	1.0	3
56	1-out-of-2 oblivious transfer using a flawed bit-string quantum protocol. <i>Physical Review A</i> , 2017, 95, .	1.0	3
57	Influence of the choice of postprocessing method on Bell inequalities. <i>Physical Review A</i> , 2018, 97, .	1.0	3
58	Experimental test of nonclassicality with arbitrarily low detection efficiency. <i>Physical Review A</i> , 2020, 102, .	1.0	3
59	Detection loophole attacks on semi-device-independent quantum and classical protocols. <i>Quantum Information and Computation</i> , 2015, 15, 37-49.	0.1	3
60	Entangled-state cryptographic protocol that remains secure even if nonlocal hidden variables exist and can be measured with arbitrary precision. <i>Physical Review A</i> , 2006, 73, .	1.0	2
61	Intrinsic asymmetry with respect to adversary: a new feature of Bell inequalities. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 424016.	0.7	2
62	ANS-based compression and encryption with 128-bit security. <i>International Journal of Information Security</i> , 2022, 21, 1051-1067.	2.3	2
63	Security in Quantum Cryptography vs. Nonlocal Hidden Variables. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	0
64	Publisher's Note: Experimental Tests of Classical and Quantum Dimensionality [Phys. Rev. Lett. 112 , 140401 (2014)]. <i>Physical Review Letters</i> , 2014, 113, .	2.9	0
65	Optimal pumping strength for BBM92 key distribution protocol. <i>International Journal of Quantum Information</i> , 2016, 14, 1650049.	0.6	0
66	Experimental Device-Independent Certification of a SIC-POVM. , 2019, , .		0
67	Entropy in Foundations of Quantum Physics. <i>Entropy</i> , 2020, 22, 371.	1.1	0
68	Quantum Bell inequalities from Information Causality are tight for Macroscopic Locality. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 6, 717.	0.0	0