

# 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	ANS-based compression and encryption with 128-bit security. International Journal of Information Security, 2022, 21, 1051-1067.	2.3	2
2	Compcryptâ€“Lightweight ANS-Based Compression and Encryption. IEEE Transactions on Information Forensics and Security, 2021, 16, 3859-3873.	4.5	11
3	Quantum randomness protected against detection loophole attacks. Quantum Information Processing, 2021, 20, 1.	1.0	8
4	Information Causality without Concatenation. Physical Review Letters, 2021, 126, 220403.	2.9	4
5	Experimental test of nonclassicality with arbitrarily low detection efficiency. Physical Review A, 2020, 102, .	1.0	3
6	Entropy in Foundations of Quantum Physics. Entropy, 2020, 22, 371.	1.1	0
7	Semi-device-independent self-testing of unsharp measurements. Physical Review Research, 2020, 2, .	1.3	35
8	State independent contextuality advances one-way communication. New Journal of Physics, 2019, 21, 093057.	1.2	41
9	Experimentally feasible semi-device-independent certification of four-outcome positive-operator-valued measurements. Physical Review A, 2019, 100, .	1.0	24
10	Experimental Device-Independent Certification of a SIC-POVM. , 2019, , .		0
11	On the security of semi-device-independent QKD protocols. Quantum Information Processing, 2018, 17, 131.	1.0	12
12	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
13	Device-independent witness of arbitrary-dimensional quantum systems employing binary-outcome measurements. Physical Review A, 2018, 98, .	1.0	9
14	Influence of the choice of postprocessing method on Bell inequalities. Physical Review A, 2018, 97, .	1.0	3
15	Connections between Mutually Unbiased Bases and Quantum Random Access Codes. Physical Review Letters, 2018, 121, 050501.	2.9	31
16	Certifying an Irreducible 1024-Dimensional Photonic State Using Refined Dimension Witnesses. Physical Review Letters, 2018, 120, 230503.	2.9	36
17	Dimensional discontinuity in quantum communication complexity at dimension seven. Physical Review A, 2017, 95, .	1.0	15
18	Complementarity between entanglement-assisted and quantum distributed random access code. Physical Review A, 2017, 95, .	1.0	18

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19	Random access codes and nonlocal resources. <i>Physical Review A</i> , 2017, 96, .	1.0	4
20	1-out-of-2 oblivious transfer using a flawed bit-string quantum protocol. <i>Physical Review A</i> , 2017, 95, .	1.0	3
21	Amplifying the Randomness of Weak Sources Correlated With Devices. <i>IEEE Transactions on Information Theory</i> , 2017, 63, 7592-7611.	1.5	7
22	Optimal pumping strength for BBM92 key distribution protocol. <i>International Journal of Quantum Information</i> , 2016, 14, 1650049.	0.6	0
23	Quantum-mechanical machinery for rational decision-making in classical guessing game. <i>Scientific Reports</i> , 2016, 6, 21424.	1.6	6
24	Reformulating noncontextuality inequalities in an operational approach. <i>Physical Review A</i> , 2016, 94, .	1.0	10
25	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
26	Tight bound on the classical value of generalized Clauser-Horne-Shimony-Holt games. <i>Physical Review A</i> , 2016, 94, .	1.0	3
27	Completely device-independent quantum key distribution. <i>Physical Review A</i> , 2016, 94, .	1.0	11
28	Spatial versus sequential correlations for random access coding. <i>Physical Review A</i> , 2016, 93, .	1.0	23
29	Quantum nonlocality via local contextuality with qubit-qubit entanglement. <i>Physical Review A</i> , 2016, 93, .	1.0	4
30	Maximal non-classicality in multi-setting Bell inequalities. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2016, 49, 145301.	0.7	4
31	Device- and semi-device-independent random numbers based on noninequality paradox. <i>Physical Review A</i> , 2015, 92, .	1.0	10
32	Testing dimension and nonclassicality in communication networks. <i>Physical Review A</i> , 2015, 92, .	1.0	24
33	Structure of quantum and broadcasting nonlocal correlations. <i>Physical Review A</i> , 2015, 92, .	1.0	5
34	Device-independent quantum key distribution based on measurement inputs. <i>Physical Review A</i> , 2015, 92, .	1.0	5
35	Detection efficiency and noise in a semi-device-independent randomness-extraction protocol. <i>Physical Review A</i> , 2015, 91, .	1.0	11
36	Robust amplification of Santha-Vazirani sources with three devices. <i>Physical Review A</i> , 2015, 91, .	1.0	10

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37	Detection-efficiency loophole and the Pusey-Barrett-Rudolph theorem. <i>Physical Review A</i> , 2015, 91, .	1.0	5
38	Detection loophole attacks on semi-device-independent quantum and classical protocols. <i>Quantum Information and Computation</i> , 2015, 15, 37-49.	0.1	3
39	Properties of dimension witnesses and their semidefinite programming relaxations. <i>Physical Review A</i> , 2014, 90, .	1.0	18
40	Free randomness amplification using bipartite chain correlations. <i>Physical Review A</i> , 2014, 90, .	1.0	20
41	When Are Popescu-Rohrlich Boxes and Random Access Codes Equivalent?. <i>Physical Review Letters</i> , 2014, 113, 100401.	2.9	14
42	Device-independent randomness extraction from an arbitrarily weak min-entropy source. <i>Physical Review A</i> , 2014, 90, .	1.0	20
43	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
44	A strategy for quantum algorithm design assisted by machine learning. <i>New Journal of Physics</i> , 2014, 16, 073017.	1.2	19
45	Experimental Tests of Classical and Quantum Dimensionality. <i>Physical Review Letters</i> , 2014, 112, 140401.	2.9	33
46	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
47	Elemental and tight monogamy relations in nonsignaling theories. <i>Physical Review A</i> , 2014, 90, .	1.0	22
48	Quantum Bidding in Bridge. <i>Physical Review X</i> , 2014, 4, .	2.8	19
49	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
50	Robustness of quantum-randomness expansion protocols in the presence of noise. <i>Physical Review A</i> , 2013, 88, .	1.0	12
51	Relationship between semi- and fully-device-independent protocols. <i>Physical Review A</i> , 2013, 87, .	1.0	15
52	Activation of entanglement in teleportation. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 435301.	0.7	3
53	Reply to "Comment on "Security proof for cryptographic protocols based only on the monogamy of Bell's inequality violations". <i>Physical Review A</i> , 2012, 85, .	1.0	3
54	"Hyperbits": The information quasiparticles. <i>Physical Review A</i> , 2012, 85, .	1.0	25

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55	Tight Bell inequalities with no quantum violation from qubit unextendible product bases. Physical Review A, 2012, 85, .	1.0	23
56	Semi-device-independent randomness certification using $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:mrow}> \langle \text{mml:mi}> n \langle \text{mml:mi}> \langle \text{mml:mo}> \hat{+} \langle \text{mml:mo}> \langle \text{mml:mn}> 1 \langle \text{mml:mn}> \langle \text{mml:mrow}> \langle \text{mml:math}> \text{quantum random access codes. Physical Review A, 2012, 85, .$	1.0	90
57	Semi-device-independent security of one-way quantum key distribution. Physical Review A, 2011, 84, .	1.0	194
58	Non-local setting and outcome information for violation of Bell's inequality. New Journal of Physics, 2010, 12, 083051.	1.2	23
59	Security proof for cryptographic protocols based only on the monogamy of Bell's inequality violations. Physical Review A, 2010, 82, .	1.0	111
60	Entanglement-assisted random access codes. Physical Review A, 2010, 81, .	1.0	70
61	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
62	Information causality as a physical principle. Nature, 2009, 461, 1101-1104.	13.7	545
63	Monogamy of Bell's Inequality Violations in Nonsignaling Theories. Physical Review Letters, 2009, 102, 030403.	2.9	65
64	Recovering part of the boundary between quantum and nonquantum correlations from information causality. Physical Review A, 2009, 80, .	1.0	63
65	Security in Quantum Cryptography vs. Nonlocal Hidden Variables. AIP Conference Proceedings, 2007, , .	0.3	0
66	Degree of entanglement as a physically ill-posed problem: The case of entanglement with vacuum. Physical Review A, 2006, 73, .	1.0	20
67	Entangled-state cryptographic protocol that remains secure even if nonlocal hidden variables exist and can be measured with arbitrary precision. Physical Review A, 2006, 73, .	1.0	2
68	Quantum Bell inequalities from Information Causality are tight for Macroscopic Locality. Quantum - the Open Journal for Quantum Science, 0, 6, 717.	0.0	0