

# Karol Horodecki

## List of Publications by Year in descending order

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38  
papers

8,326  
citations

430874  
18  
h-index

361022  
35  
g-index

39  
all docs

39  
docs citations

39  
times ranked

4680  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum entanglement. Reviews of Modern Physics, 2009, 81, 865-942.	45.6	6,975
2	Secure Key from Bound Entanglement. Physical Review Letters, 2005, 94, 160502.	7.8	256
3	Local Indistinguishability: More Nonlocality with Less Entanglement. Physical Review Letters, 2003, 90, 047902.	7.8	181
4	Local Information as a Resource in Distributed Quantum Systems. Physical Review Letters, 2003, 90, 100402.	7.8	135
5	General Paradigm for Distilling Classical Key From Quantum States. IEEE Transactions on Information Theory, 2009, 55, 1898-1929.	2.4	99
6	Quantifying Contextuality. Physical Review Letters, 2014, 112, 120401.	7.8	81
7	Squashed Entanglement for Multipartite States and Entanglement Measures Based on the Mixed Convex Roof. IEEE Transactions on Information Theory, 2009, 55, 3375-3387.	2.4	69
8	Low-Dimensional Bound Entanglement With One-Way Distillable Cryptographic Key. IEEE Transactions on Information Theory, 2008, 54, 2621-2625.	2.4	56
9	Quantum Key Distribution Based on Private States: Unconditional Security Over Untrusted Channels With Zero Quantum Capacity. IEEE Transactions on Information Theory, 2008, 54, 2604-2620.	2.4	53
10	Locking Entanglement with a Single Qubit. Physical Review Letters, 2005, 94, 200501.	7.8	45
11	Realistic noise-tolerant randomness amplification using finite number of devices. Nature Communications, 2016, 7, 11345.	12.8	45
12	Mutually exclusive aspects of information carried by physical systems: Complementarity between local and nonlocal information. Physical Review A, 2003, 68, .	2.5	38
13	Limitations on quantum key repeaters. Nature Communications, 2015, 6, 6908.	12.8	38
14	Axiomatic approach to contextuality and nonlocality. Physical Review A, 2015, 92, .	2.5	31
15	Universal Limitations on Quantum Key Distribution over a Network. Physical Review X, 2021, 11, .	8.9	27
16	Randomness Amplification under Minimal Fundamental Assumptions on the Devices. Physical Review Letters, 2016, 117, 230501.	7.8	26
17	Unconditional Privacy over Channels which Cannot Convey Quantum Information. Physical Review Letters, 2008, 100, 110502.	7.8	25
18	Free randomness amplification using bipartite chain correlations. Physical Review A, 2014, 90, .	2.5	20

#	ARTICLE	IF	CITATIONS
19	Quantum Key Distribution Based on Arbitrarily Weak Distillable Entangled States. Physical Review Letters, 2006, 96, 070501.	7.8	14
20	When Are Popescu-Rohrlich Boxes and Random Access Codes Equivalent?. Physical Review Letters, 2014, 113, 100401.	7.8	14
21	Information Theories with Adversaries, Intrinsic Information, and Entanglement. Foundations of Physics, 2005, 35, 2027-2040.	1.3	13
22	Upper Bounds on Device-Independent Quantum Key Distribution. Physical Review Letters, 2021, 126, 160501.	7.8	12
23	Distributed Private Randomness Distillation. Physical Review Letters, 2019, 123, 170501.	7.8	9
24	Gadget structures in proofs of the Kochen-Specker theorem. Quantum - the Open Journal for Quantum Science, 0, 4, 308.	0.0	8
25	Bounds on quantum nonlocality via partial transposition. Physical Review A, 2015, 92, .	2.5	7
26	Amplifying the Randomness of Weak Sources Correlated With Devices. IEEE Transactions on Information Theory, 2017, 63, 7592-7611.	2.4	7
27	Fundamental limitations on the device-independent quantum conference key agreement. Physical Review A, 2022, 105, .	2.5	7
28	Bounds on localizable information via semidefinite programming. Journal of Mathematical Physics, 2005, 46, 082107.	1.1	6
29	Quantum privacy witness. Physical Review A, 2012, 85, .	2.5	6
30	Semi-device-independent quantum money. New Journal of Physics, 2020, 22, 023007.	2.9	6
31	Are quantum correlations symmetric?. Quantum Information and Computation, 2010, 10, 901-910.	0.3	5
32	Random access codes and nonlocal resources. Physical Review A, 2017, 96, .	2.5	4
33	Bound entangled states with extremal properties. Physical Review A, 2014, 90, .	2.5	3
34	Hybrid quantum network design against unauthorized secret-key generation, and its memory cost. Physical Review Research, 2020, 2, .	3.6	3
35	Limitations for private randomness repeaters. Physical Review A, 2020, 102, .	2.5	1
36	Upper bounds on the leakage of private data and an operational approach to Markovianity. Physical Review A, 2021, 104, .	2.5	1

#	ARTICLE	IF	CITATIONS
37	On distinguishing of non-signaling boxes via completely locality preserving operations. IEEE Transactions on Information Theory, 2017, , 1-1.	2.4	0
38	Private Weakly-Random Sequences from Human Heart Rate for Quantum Amplification. Entropy, 2021, 23, 1182.	2.2	0