

Karol Horodecki

List of Publications by Year in descending order

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38
papers

8,326
citations

489802

18
h-index

406436

35
g-index

39
all docs

39
docs citations

39
times ranked

5269
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum entanglement. <i>Reviews of Modern Physics</i> , 2009, 81, 865-942.	16.4	6,975
2	Secure Key from Bound Entanglement. <i>Physical Review Letters</i> , 2005, 94, 160502.	2.9	256
3	Local Indistinguishability: More Nonlocality with Less Entanglement. <i>Physical Review Letters</i> , 2003, 90, 047902.	2.9	181
4	Local Information as a Resource in Distributed Quantum Systems. <i>Physical Review Letters</i> , 2003, 90, 100402.	2.9	135
5	General Paradigm for Distilling Classical Key From Quantum States. <i>IEEE Transactions on Information Theory</i> , 2009, 55, 1898-1929.	1.5	99
6	Quantifying Contextuality. <i>Physical Review Letters</i> , 2014, 112, 120401.	2.9	81
7	Squashed Entanglement for Multipartite States and Entanglement Measures Based on the Mixed Convex Roof. <i>IEEE Transactions on Information Theory</i> , 2009, 55, 3375-3387.	1.5	69
8	Low-Dimensional Bound Entanglement With One-Way Distillable Cryptographic Key. <i>IEEE Transactions on Information Theory</i> , 2008, 54, 2621-2625.	1.5	56
9	Quantum Key Distribution Based on Private States: Unconditional Security Over Untrusted Channels With Zero Quantum Capacity. <i>IEEE Transactions on Information Theory</i> , 2008, 54, 2604-2620.	1.5	53
10	Locking Entanglement with a Single Qubit. <i>Physical Review Letters</i> , 2005, 94, 200501.	2.9	45
11	Realistic noise-tolerant randomness amplification using finite number of devices. <i>Nature Communications</i> , 2016, 7, 11345.	5.8	45
12	Mutually exclusive aspects of information carried by physical systems: Complementarity between local and nonlocal information. <i>Physical Review A</i> , 2003, 68, .	1.0	38
13	Limitations on quantum key repeaters. <i>Nature Communications</i> , 2015, 6, 6908.	5.8	38
14	Axiomatic approach to contextuality and nonlocality. <i>Physical Review A</i> , 2015, 92, .	1.0	31
15	Universal Limitations on Quantum Key Distribution over a Network. <i>Physical Review X</i> , 2021, 11, .	2.8	27
16	Randomness Amplification under Minimal Fundamental Assumptions on the Devices. <i>Physical Review Letters</i> , 2016, 117, 230501.	2.9	26
17	Unconditional Privacy over Channels which Cannot Convey Quantum Information. <i>Physical Review Letters</i> , 2008, 100, 110502.	2.9	25
18	Free randomness amplification using bipartite chain correlations. <i>Physical Review A</i> , 2014, 90, .	1.0	20

#	ARTICLE	IF	CITATIONS
19	Quantum Key Distribution Based on Arbitrarily Weak Distillable Entangled States. Physical Review Letters, 2006, 96, 070501.	2.9	14
20	When Are Popescu-Rohrlich Boxes and Random Access Codes Equivalent?. Physical Review Letters, 2014, 113, 100401.	2.9	14
21	Information Theories with Adversaries, Intrinsic Information, and Entanglement. Foundations of Physics, 2005, 35, 2027-2040.	0.6	13
22	Upper Bounds on Device-Independent Quantum Key Distribution. Physical Review Letters, 2021, 126, 160501.	2.9	12
23	Distributed Private Randomness Distillation. Physical Review Letters, 2019, 123, 170501.	2.9	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, .	1.0	7
26	Amplifying the Randomness of Weak Sources Correlated With Devices. IEEE Transactions on Information Theory, 2017, 63, 7592-7611.	1.5	7
27	Fundamental limitations on the device-independent quantum conference key agreement. Physical Review A, 2022, 105, .	1.0	7
28	Bounds on localizable information via semidefinite programming. Journal of Mathematical Physics, 2005, 46, 082107.	0.5	6
29	Quantum privacy witness. Physical Review A, 2012, 85, .	1.0	6
30	Semi-device-independent quantum money. New Journal of Physics, 2020, 22, 023007.	1.2	6
31	Are quantum correlations symmetric?. Quantum Information and Computation, 2010, 10, 901-910.	0.1	5
32	Random access codes and nonlocal resources. Physical Review A, 2017, 96, .	1.0	4
33	Bound entangled states with extremal properties. Physical Review A, 2014, 90, .	1.0	3
34	Hybrid quantum network design against unauthorized secret-key generation, and its memory cost. Physical Review Research, 2020, 2, .	1.3	3
35	Limitations for private randomness repeaters. Physical Review A, 2020, 102, .	1.0	1
36	Upper bounds on the leakage of private data and an operational approach to Markovianity. Physical Review A, 2021, 104, .	1.0	1

#	ARTICLE	IF	CITATIONS
37	On distinguishing of non-signaling boxes via completely locality preserving operations. IEEE Transactions on Information Theory, 2017, , 1-1.	1.5	0
38	Private Weakly-Random Sequences from Human Heart Rate for Quantum Amplification. Entropy, 2021, 23, 1182.	1.1	0