

# Hermann Kampermann

## List of Publications by Year in descending order

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50  
papers

1,605  
citations

430874

18  
h-index

302126

39  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1120  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantifying necessary quantum resources for nonlocality. <i>Physical Review Research</i> , 2022, 4, .	3.6	3
2	Entropy Bounds for Multiparty Device-Independent Cryptography. <i>PRX Quantum</i> , 2021, 2, .	9.2	11
3	Genuine multipartite entanglement is not a precondition for secure conference key agreement. <i>Physical Review Research</i> , 2021, 3, .	3.6	8
4	Optimal noise estimation from syndrome statistics of quantum codes. <i>Physical Review Research</i> , 2021, 3, .	3.6	3
5	Quantifying coherence with respect to general quantum measurements. <i>Physical Review A</i> , 2021, 103, .	2.5	19
6	Quantum repeaters in space. <i>New Journal of Physics</i> , 2021, 23, 053021.	2.9	30
7	Hierarchy of continuous-variable quantum resource theories. <i>New Journal of Physics</i> , 2021, 23, 113008.	2.9	2
8	Quantum Conference Key Agreement: A Review. <i>Advanced Quantum Technologies</i> , 2020, 3, 2000025.	3.9	55
9	Activation of Nonlocality in Bound Entanglement. <i>Physical Review Letters</i> , 2020, 124, 050401.	7.8	5
10	Detecting entanglement of unknown continuous variable states with random measurements. <i>New Journal of Physics</i> , 2020, 22, 123041.	2.9	6
11	Genuine multipartite Bell inequality for device-independent conference key agreement. <i>Physical Review Research</i> , 2020, 2, .	3.6	20
12	Satellite-based links for quantum key distribution: beam effects and weather dependence. <i>New Journal of Physics</i> , 2019, 21, 093055.	2.9	50
13	Comment on "Fully device-independent conference key agreement". <i>Physical Review A</i> , 2019, 100, .	2.5	8
14	Resource Theory of Coherence Based on Positive-Operator-Valued Measures. <i>Physical Review Letters</i> , 2019, 123, 110402.	7.8	52
15	Conference key agreement with single-photon interference. <i>New Journal of Physics</i> , 2019, 21, 123002.	2.9	46
16	Analysis of quantum error correction with symmetric hypergraph states. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 125302.	2.1	5
17	Finite-key effects in multipartite quantum key distribution protocols. <i>New Journal of Physics</i> , 2018, 20, 113014.	2.9	40
18	Propagation of generalized Pauli errors in qudit Clifford circuits. <i>Physical Review A</i> , 2018, 98, .	2.5	11

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19	Maximal coherence and the resource theory of purity. <i>New Journal of Physics</i> , 2018, 20, 053058.	2.9	97
20	Measurement-device-independent randomness generation with arbitrary quantum states. <i>Physical Review A</i> , 2017, 95, .	2.5	9
21	Device-Independent Bounds on Detection Efficiency. <i>Physical Review Letters</i> , 2017, 118, 260401.	7.8	7
22	Multi-partite entanglement can speed up quantum key distribution in networks. <i>New Journal of Physics</i> , 2017, 19, 093012.	2.9	110
23	Entanglement Distribution and Quantum Discord. <i>Quantum Science and Technology</i> , 2017, , 217-230.	2.6	4
24	On the error analysis of quantum repeaters with encoding. <i>Applied Physics B: Lasers and Optics</i> , 2016, 122, 1.	2.2	7
25	Robust entanglement distribution via quantum network coding. <i>New Journal of Physics</i> , 2016, 18, 103052.	2.9	30
26	Large-scale quantum networks based on graphs. <i>New Journal of Physics</i> , 2016, 18, 053036.	2.9	38
27	Group structures and representations of graph states. <i>Physical Review A</i> , 2015, 92, .	2.5	5
28	Detecting entanglement of unknown quantum states with random measurements. <i>New Journal of Physics</i> , 2015, 17, 113051.	2.9	8
29	Secret key rates for an encoded quantum repeater. <i>Physical Review A</i> , 2014, 89, .	2.5	17
30	Limits for entanglement distribution with separable states. <i>Physical Review A</i> , 2014, 90, .	2.5	11
31	Designing Bell Inequalities from a Tsirelson Bound. <i>Physical Review Letters</i> , 2013, 111, 240404.	7.8	14
32	Quantum key distribution with finite resources: Taking advantage of quantum noise. <i>Physical Review A</i> , 2013, 87, .	2.5	11
33	Quantum repeaters and quantum key distribution: Analysis of secret-key rates. <i>Physical Review A</i> , 2013, 87, .	2.5	46
34	Secret key rates for coherent attacks. <i>Physical Review A</i> , 2013, 87, .	2.5	9
35	Algorithm for characterizing stochastic local operations and classical communication classes of multiparticle entanglement. <i>Physical Review A</i> , 2012, 86, .	2.5	18
36	Quantum Cost for Sending Entanglement. <i>Physical Review Letters</i> , 2012, 108, 250501.	7.8	143

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37	Behavior of Quantum Correlations under Local Noise. <i>Physical Review Letters</i> , 2011, 107, 170502.	7.8	159
38	Finite-key analysis of the six-state protocol with photon number resolution detectors. , 2011, , .		1
39	Linking Quantum Discord to Entanglement in a Measurement. <i>Physical Review Letters</i> , 2011, 106, 160401.	7.8	251
40	Quantum key distribution with finite resources: Secret key rates via Rényi entropies. <i>Physical Review A</i> , 2011, 84, .	2.5	12
41	Min-entropy and quantum key distribution: Nonzero key rates for small numbers of signals. <i>Physical Review A</i> , 2011, 83, .	2.5	18
42	Unambiguous discrimination of mixed quantum states: Optimal solution and case study. <i>Physical Review A</i> , 2010, 81, .	2.5	16
43	Experimental generation of pseudo-bound-entanglement. <i>Physical Review A</i> , 2010, 81, .	2.5	26
44	Quantum sign permutation polytopes. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 505306.	2.1	1
45	Linking a distance measure of entanglement to its convex roof. <i>New Journal of Physics</i> , 2010, 12, 123004.	2.9	72
46	Multipartite Entanglement Detection via Structure Factors. <i>Physical Review Letters</i> , 2009, 103, 100502.	7.8	65
47	Revealing Quantum Entanglement via Locally Noneffective Operations. <i>Lecture Notes in Computer Science</i> , 2009, , 3-5.	1.3	0
48	Determination of the Relaxation Super Operator of $^{23}\text{Na}$ in a $\text{NaNO}_3$ Single Crystal by Using the $I = 3/2$ Nuclear Spin as a Qubit Quantum Processor. <i>Israel Journal of Chemistry</i> , 2006, 46, 399-405.	2.3	0
49	Finite key analysis for symmetric attacks in quantum key distribution. <i>Physical Review A</i> , 2006, 74, .	2.5	24
50	Parameter regimes for surpassing the PLOB bound with error-corrected qudit repeaters. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 3, 216.	0.0	2