

Mario A Berta

List of Publications by Year in descending order

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62
papers

2,707
citations

236925

25
h-index

189892

50
g-index

63
all docs

63
docs citations

63
times ranked

1380
citing authors

#	ARTICLE	IF	CITATIONS
1	Semidefinite programming hierarchies for constrained bilinear optimization. <i>Mathematical Programming</i> , 2022, 194, 781-829.	2.4	8
2	Randomized Quantum Algorithm for Statistical Phase Estimation. <i>Physical Review Letters</i> , 2022, 129, .	7.8	19
3	Resource distillation in convex Gaussian resource theories. <i>Physical Review A</i> , 2021, 103, .	2.5	2
4	Computing Quantum Channel Capacities. <i>IEEE Transactions on Information Theory</i> , 2021, 67, 946-960.	2.4	13
5	Thermodynamic Implementations of Quantum Processes. <i>Communications in Mathematical Physics</i> , 2021, 384, 1709-1750.	2.2	3
6	On Composite Quantum Hypothesis Testing. <i>Communications in Mathematical Physics</i> , 2021, 385, 55-77.	2.2	8
7	Moderate Deviation Analysis for Quantum State Transfer. , 2021, , .		0
8	Quantum Channel Simulation and the Channel's Smooth Max-Information. <i>IEEE Transactions on Information Theory</i> , 2020, 66, 2129-2140.	2.4	26
9	Non-Additivity in Classical-Quantum Wiretap Channels. <i>IEEE Journal on Selected Areas in Information Theory</i> , 2020, 1, 526-535.	2.5	2
10	Quantum Blahut-Arimoto Algorithms. , 2020, , .		3
11	Amortized channel divergence for asymptotic quantum channel discrimination. <i>Letters in Mathematical Physics</i> , 2020, 110, 2277-2336.	1.1	45
12	Partially Smoothed Information Measures. <i>IEEE Transactions on Information Theory</i> , 2020, 66, 5022-5036.	2.4	17
13	Thermodynamic Capacity of Quantum Processes. <i>Physical Review Letters</i> , 2019, 122, 200601.	7.8	27
14	Second-Order Characterizations via Partial Smoothing. , 2019, , .		0
15	Quantum Coding via Semidefinite Programming. , 2019, , .		0
16	A minimax approach to one-shot entropy inequalities. <i>Journal of Mathematical Physics</i> , 2019, 60, 122201.	1.1	9
17	Amortization does not enhance the max-Rains information of a quantum channel. <i>New Journal of Physics</i> , 2018, 20, 053044.	2.9	27
18	Disentanglement Cost of Quantum States. <i>Physical Review Letters</i> , 2018, 121, 190503.	7.8	18

#	ARTICLE	IF	CITATIONS
19	Quantum Channel Simulation and the Channel's Smooth Max-Information. , 2018, , .		3
20	Thermal states as convex combinations of matrix product states. Physical Review B, 2018, 98, .	3.2	10
21	Deconstruction and conditional erasure of quantum correlations. Physical Review A, 2018, 98, .	2.5	15
22	Conditional Decoupling of Quantum Information. Physical Review Letters, 2018, 121, 040504.	7.8	15
23	Rényi Divergences as Weighted Non-commutative Vector-Valued L_p -Spaces. Annales Henri Poincaré, 2018, 19, 1843-1867.	1.7	26
24	Strong Converse Bound on the Two-Way Assisted Quantum Capacity. , 2018, , .		0
25	Converse Bounds for Private Communication Over Quantum Channels. IEEE Transactions on Information Theory, 2017, 63, 1792-1817.	2.4	98
26	Catalytic Decoupling of Quantum Information. Physical Review Letters, 2017, 118, 080503.	7.8	28
27	Entropic uncertainty relations and their applications. Reviews of Modern Physics, 2017, 89, .	45.6	378
28	Entanglement-assisted capacities of compound quantum channels. IEEE Transactions on Information Theory, 2017, , 1-1.	2.4	9
29	Multivariate Trace Inequalities. Communications in Mathematical Physics, 2017, 352, 37-58.	2.2	65
30	Gaussian Hypothesis Testing and Quantum Illumination. Physical Review Letters, 2017, 119, 120501.	7.8	57
31	On variational expressions for quantum relative entropies. Letters in Mathematical Physics, 2017, 107, 2239-2265.	1.1	39
32	Quantum-Proof Randomness Extractors via Operator Space Theory. IEEE Transactions on Information Theory, 2017, 63, 2480-2503.	2.4	5
33	A meta-converse for private communication over quantum channels. , 2017, , .		2
34	Quantum Markov chains and logarithmic trace inequalities. , 2017, , .		3
35	Entropic uncertainty and measurement reversibility. New Journal of Physics, 2016, 18, 073004.	2.9	60
36	The smooth entropy formalism for von Neumann algebras. Journal of Mathematical Physics, 2016, 57, .	1.1	22

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37	Exploiting variational formulas for quantum relative entropy. , 2016, , .		3
38	The Fidelity of Recovery Is Multiplicative. IEEE Transactions on Information Theory, 2016, 62, 1758-1763.	2.4	30
39	Quantum Bilinear Optimization. SIAM Journal on Optimization, 2016, 26, 1529-1564.	2.0	15
40	Quantum coding with finite resources. Nature Communications, 2016, 7, 11419.	12.8	50
41	Smooth Entropy Bounds on One-Shot Quantum State Redistribution. IEEE Transactions on Information Theory, 2016, 62, 1425-1439.	2.4	27
42	Rényi generalizations of quantum information measures. Physical Review A, 2015, 91, .	2.5	22
43	Rényi generalizations of the conditional quantum mutual information. Journal of Mathematical Physics, 2015, 56, .	1.1	51
44	Rényi squashed entanglement, discord, and relative entropy differences. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 395303.	2.1	29
45	Monotonicity of quantum relative entropy and recoverability. Quantum Information and Computation, 2015, 15, 1333-1354.	0.3	17
46	Position-momentum uncertainty relations in the presence of quantum memory. Journal of Mathematical Physics, 2014, 55, .	1.1	46
47	Variations on classical and quantum extractors. , 2014, , .		8
48	Entanglement-assisted guessing of complementary measurement outcomes. Physical Review A, 2014, 90, .	2.5	48
49	Identifying the Information Gain of a Quantum Measurement. IEEE Transactions on Information Theory, 2014, 60, 7987-8006.	2.4	40
50	Relating different quantum generalizations of the conditional Rényi entropy. Journal of Mathematical Physics, 2014, 55, .	1.1	58
51	Quantum to Classical Randomness Extractors. IEEE Transactions on Information Theory, 2014, 60, 1168-1192.	2.4	20
52	Identifying the information gain of a quantum measurement. , 2014, , .		1
53	A duality relation connecting different quantum generalizations of the conditional Rényi entropy. , 2014, , .		2
54	One-Shot Decoupling. Communications in Mathematical Physics, 2014, 328, 251-284.	2.2	76

#	ARTICLE	IF	CITATIONS
55	Entanglement Cost of Quantum Channels. IEEE Transactions on Information Theory, 2013, 59, 6779-6795.	2.4	51
56	Continuous Variable Quantum Key Distribution: Finite-Key Analysis of Composable Security against Coherent Attacks. Physical Review Letters, 2012, 109, 100502.	7.8	237
57	Quantum to Classical Randomness Extractors. Lecture Notes in Computer Science, 2012, , 776-793.	1.3	10
58	Min-entropy uncertainty relation for finite-size cryptography. Physical Review A, 2012, 86, .	2.5	45
59	Entanglement cost of quantum channels. , 2012, , .		5
60	The Quantum Reverse Shannon Theorem Based on One-Shot Information Theory. Communications in Mathematical Physics, 2011, 306, 579-615.	2.2	131
61	A Conceptually Simple Proof of the Quantum Reverse Shannon Theorem. Lecture Notes in Computer Science, 2011, , 131-140.	1.3	1
62	The uncertainty principle in the presence of quantum memory. Nature Physics, 2010, 6, 659-662.	16.7	611