

Francesco Buscemi

List of Publications by Year in descending order

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66
papers

1,850
citations

304743

22
h-index

289244

40
g-index

67
all docs

67
docs citations

67
times ranked

1005
citing authors

#	ARTICLE	IF	CITATIONS
1	All Entangled Quantum States Are Nonlocal. <i>Physical Review Letters</i> , 2012, 108, 200401.	7.8	155
2	The Quantum Capacity of Channels With Arbitrarily Correlated Noise. <i>IEEE Transactions on Information Theory</i> , 2010, 56, 1447-1460.	2.4	124
3	Noise and Disturbance in Quantum Measurements: An Information-Theoretic Approach. <i>Physical Review Letters</i> , 2014, 112, 050401.	7.8	111
4	Quantum majorization and a complete set of entropic conditions for quantum thermodynamics. <i>Nature Communications</i> , 2018, 9, 5352.	12.8	87
5	Economical phase-covariant cloning of qudits. <i>Physical Review A</i> , 2005, 71, .	2.5	84
6	Complete Positivity, Markovianity, and the Quantum Data-Processing Inequality, in the Presence of Initial System-Environment Correlations. <i>Physical Review Letters</i> , 2014, 113, 140502.	7.8	80
7	Global Information Balance in Quantum Measurements. <i>Physical Review Letters</i> , 2008, 100, 210504.	7.8	76
8	Resource Theory of Quantum Memories and Their Faithful Verification with Minimal Assumptions. <i>Physical Review X</i> , 2018, 8, .	8.9	67
9	Clean positive operator valued measures. <i>Journal of Mathematical Physics</i> , 2005, 46, 082109.	1.1	64
10	Equivalence between divisibility and monotonic decrease of information in classical and quantum stochastic processes. <i>Physical Review A</i> , 2016, 93, .	2.5	64
11	Inverting Quantum Decoherence by Classical Feedback from the Environment. <i>Physical Review Letters</i> , 2005, 95, 090501.	7.8	60
12	Polygamy of distributed entanglement. <i>Physical Review A</i> , 2009, 80, .	2.5	53
13	Comparison of Quantum Statistical Models: Equivalent Conditions for Sufficiency. <i>Communications in Mathematical Physics</i> , 2012, 310, 625-647.	2.2	48
14	The information-theoretic costs of simulating quantum measurements. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 453001.	2.1	44
15	Approximate reversibility in the context of entropy gain, information gain, and complete positivity. <i>Physical Review A</i> , 2016, 93, .	2.5	41
16	Quantum relative Lorenz curves. <i>Physical Review A</i> , 2017, 95, .	2.5	41
17	Distilling entanglement from arbitrary resources. <i>Journal of Mathematical Physics</i> , 2010, 51, .	1.1	40
18	Experimental Test of Entropic Noise-Disturbance Uncertainty Relations for Spin- $\frac{1}{2}$ Measurements. <i>Physical Review Letters</i> , 2015, 115, 030401.	7.8	38

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19	Entanglement Cost in Practical Scenarios. <i>Physical Review Letters</i> , 2011, 106, 130503.	7.8	35
20	The type-independent resource theory of local operations and shared randomness. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 4, 262.	0.0	35
21	Complete Resource Theory of Quantum Incompatibility as Quantum Programmability. <i>Physical Review Letters</i> , 2020, 124, 120401.	7.8	33
22	Degradable channels, less noisy channels, and quantum statistical morphisms: An equivalence relation. <i>Problems of Information Transmission</i> , 2016, 52, 201-213.	0.5	28
23	Information-disturbance trade-off in quantum-state discrimination. <i>Physical Review A</i> , 2006, 74, .	2.5	26
24	Towards a Unified Approach to Information-Disturbance Tradeoffs in Quantum Measurements. <i>Open Systems and Information Dynamics</i> , 2009, 16, 29-48.	1.2	23
25	Optimal realization of the transposition maps. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003, 314, 374-379.	2.1	22
26	No-Hypersignaling Principle. <i>Physical Review Letters</i> , 2017, 119, 020401.	7.8	22
27	An information-theoretic treatment of quantum dichotomies. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 3, 209.	0.0	22
28	On the minimum number of unitaries needed to describe a random-unitary channel. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 360, 256-258.	2.1	21
29	Device-independent tests of quantum channels. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017, 473, 20160721.	2.1	20
30	Fluctuation theorems from Bayesian retrodiction. <i>Physical Review E</i> , 2021, 103, 052111.	2.1	20
31	Channel Correction via Quantum Erasure. <i>Physical Review Letters</i> , 2007, 99, 180501.	7.8	19
32	Device-Independent Tests of Quantum Measurements. <i>Physical Review Letters</i> , 2017, 118, 250501.	7.8	19
33	Physical realizations of quantum operations. <i>Physical Review A</i> , 2003, 68, .	2.5	18
34	Game-theoretic characterization of antidegradable channels. <i>Journal of Mathematical Physics</i> , 2014, 55, .	1.1	17
35	General Theory of Environment-Assisted Entanglement Distillation. <i>IEEE Transactions on Information Theory</i> , 2013, 59, 1940-1954.	2.4	16
36	Type-Independent Characterization of Spacelike Separated Resources. <i>Physical Review Letters</i> , 2020, 125, 210402.	7.8	16

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37	Coherence manipulation with dephasing-covariant operations. <i>Physical Review Research</i> , 2020, 2, .	3.6	15
38	Fluctuation theorems with retrodiction rather than reverse processes. <i>AVS Quantum Science</i> , 2021, 3, .	4.9	15
39	Tight bounds on accessible information and informational power. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 235302.	2.1	14
40	Universal and phase-covariant superbroadcasting for mixed qubit states. <i>Physical Review A</i> , 2006, 74, .	2.5	11
41	General state transitions with exact resource morphisms: a unified resource-theoretic approach. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 445303.	2.1	10
42	Entanglement measures and approximate quantum error correction. <i>Physical Review A</i> , 2008, 77, .	2.5	9
43	Private quantum decoupling and secure disposal of information. <i>New Journal of Physics</i> , 2009, 11, 123002.	2.9	8
44	Universal optimal quantum correlator. <i>International Journal of Quantum Information</i> , 2014, 12, 1560002.	1.1	8
45	There Exist Nonorthogonal Quantum Measurements that are Perfectly Repeatable. <i>Physical Review Letters</i> , 2004, 92, 070403.	7.8	7
46	Extension of the Alberti-Ullmann criterion beyond qubit dichotomies. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 4, 233.	0.0	7
47	Quantum Erasure of Decoherence. <i>Open Systems and Information Dynamics</i> , 2007, 14, 53-61.	1.2	6
48	Experimental semi-device-independent tests of quantum channels. <i>Quantum Science and Technology</i> , 2019, 4, 035004.	5.8	6
49	Thermodynamic reverse bounds for general open quantum processes. <i>Physical Review A</i> , 2020, 102, .	2.5	6
50	Optimal time reversal of multiphase equatorial states. <i>Physical Review A</i> , 2005, 72, .	2.5	5
51	Comparison of noisy channels and reverse data-processing theorems. , 2017, , .		4
52	Data-driven inference of physical devices: theory and implementation. <i>New Journal of Physics</i> , 2019, 21, 113029.	2.9	4
53	Reverse Data-Processing Theorems and Computational Second Laws. <i>Springer Proceedings in Mathematics and Statistics</i> , 2018, , 135-159.	0.2	4
54	Thermodynamic Constraints on Quantum Information Gain and Error Correction: A Triple Trade-Off. <i>PRX Quantum</i> , 2022, 3, .	9.2	4

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55	Economical realization of phase-covariant devices in arbitrary dimensions (Invited). Journal of the Optical Society of America B: Optical Physics, 2007, 24, 363.	2.1	3
56	Unitary realizations of the ideal phase measurement. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 312, 315-318.	2.1	2
57	Superbroadcasting and classical information. Physical Review A, 2007, 75, .	2.5	2
58	Unified approach to witness non-entanglement-breaking quantum channels. Physical Review A, 2020, 101, .	2.5	2
59	Data-driven inference, reconstruction, and observational completeness of quantum devices. Physical Review A, 2020, 102, .	2.5	2
60	Guesswork of a Quantum Ensemble. IEEE Transactions on Information Theory, 2022, 68, 3139-3143.	2.4	2
61	A Minimum-Disturbing Quantum State Discriminator. Open Systems and Information Dynamics, 2007, 14, 17-24.	1.2	1
62	Proposal of an eavesdropping experiment for BB84 QKD protocol with 1â†³ phase-covariant quantum donor. , 2009, , .		1
63	Tradeoff Relations Between Accessible Information, Informational Power, and Purity. IEEE Transactions on Information Theory, 2019, 65, 2614-2622.	2.4	1
64	Explicit Construction of Optimal Witnesses for Input-Output Correlations Attainable by Quantum Channels. Open Systems and Information Dynamics, 2020, 27, 2050017.	1.2	1
65	INFORMATION EXTRACTION VERSUS IRREVERSIBILITY IN QUANTUM MEASUREMENT PROCESSES. International Journal of Quantum Information, 2008, 06, 613-619.	1.1	0
66	Irreversibility of Entanglement Loss. Lecture Notes in Computer Science, 2008, , 16-28.	1.3	0