Lorenzo Maccone

List of Publications by Year
in descending order

99	11,604	81889 39	46795 89
papers	citations	h-index	g-index

99	99	99	5706
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Four Postulates of Quantum Mechanics Are Three. Physical Review Letters, 2021, 126, 110402.	7.8	16
2	Knowledge of Quantum Hidden Variables Enables Backwards-In-Time Signaling. Applied Sciences (Switzerland), 2021, 11, 4477.	2.5	3
3	Time-energy uncertainty relation for quantum events. Physical Review A, 2021, 104, .	2.5	4
4	Quantum Radar. Physical Review Letters, 2020, 124, 200503.	7.8	49
5	Quantum Measurements of Time. Physical Review Letters, 2020, 124, 110402.	7.8	41
6	Ancilla-assisted schemes are beneficial for Gaussian state phase estimation. Physical Review A, 2020, 101, .	2.5	3
7	State-independent uncertainty relations from eigenvalue minimization. Physical Review A, 2019, 99, .	2.5	11
8	Cryptographic quantum metrology. Physical Review A, 2019, 99, .	2.5	17
9	A Fundamental Problem in Quantizing General Relativity. Foundations of Physics, 2019, 49, 1394-1403.	1.3	17
10	Quantum Measurements of time. , 2019, , .		0
11	Experimental ancilla-assisted phase estimation in a noisy channel. Physical Review A, 2018, 97, .	2.5	9
12	Noise-dependent optimal strategies for quantum metrology. Physical Review A, 2018, 97, .	2.5	15
13	State-independent uncertainty relations. Physical Review A, 2018, 98, .	2.5	15
14	Multipartite steering inequalities based on entropic uncertainty relations. Physical Review A, 2018, 97, .	2.5	28
15	Tight entropic uncertainty relations for systems with dimension three to five. Physical Review A, 2017, 95, .	2.5	30
16	Multipartite correlations in mutually unbiased bases. Physical Review A, 2017, 95, .	2.5	13
17	Digital Quantum Estimation. Physical Review Letters, 2017, 119, 200502.	7.8	11
18	Quantum time: Experimental multitime correlations. Physical Review D, 2017, 96, .	4.7	19

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19	The Pauli Objection. Foundations of Physics, 2017, 47, 1597-1608.	1.3	24
20	Some examples of sum uncertainty relations for compact classical Lie algebra. , 2017, , .		0
21	Usefulness of entanglement-assisted quantum metrology. Physical Review A, 2016, 94, .	2.5	51
22	High-dimensional entanglement certification. Scientific Reports, 2016, 6, 27637.	3.3	10
23	Quantum time. Physical Review D, 2015, 92, .	4.7	106
24	Publisherâ€™s Note: Stronger Uncertainty Relations for All Incompatible Observables [Phys. Rev. Lett.113, 260401 (2014)]. Physical Review Letters, 2015, 114, .	7.8	4
25	Complementarity and Correlations. Physical Review Letters, 2015, 114, 130401.	7.8	32
26	Stronger Uncertainty Relations for All Incompatible Observables. Physical Review Letters, 2014, 113, 260401.	7.8	202
27	State estimation: A comparison between direct state measurement and tomography. Physical Review A, 2014, 89, .	2.5	42
28	Using Entanglement Against Noise in Quantum Metrology. Physical Review Letters, 2014, 113, 250801.	7.8	244
29	Time from quantum entanglement: An experimental illustration. Physical Review A, 2014, 89, .	2.5	84
30	Intuitive reason for the usefulness of entanglement in quantum metrology. Physical Review A, 2013, 88, .	2.5	27
31	Electromagnetic channel capacity for practical purposes. Nature Photonics, 2013, 7, 834-838.	31.4	17
32	A simple proof of Bell's inequality. American Journal of Physics, 2013, 81, 854-859.	0.7	23
33	Efficient Universal Blind Quantum Computation. Physical Review Letters, 2013, 111, 230501.	7.8	59
34	Achieving the Holevo bound via sequential measurements. Physical Review A, 2012, 85, .	2.5	26
35	Phase Estimation via Quantum Interferometry for Noisy Detectors. Physical Review Letters, 2012, 108, 233602.	7.8	39
36	Teleportation transfers only speakable quantum information. Physical Review A, 2012, 86, .	2.5	12

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37	Sub-Heisenberg Estimation Strategies Are Ineffective. Physical Review Letters, 2012, 108, 210404.	7.8	70
38	Quantum Measurement Bounds beyond the Uncertainty Relations. Physical Review Letters, 2012, 108, 260405.	7.8	46
39	Quantum mechanics of time travel through post-selected teleportation. Physical Review D, 2011, 84, .	4.7	69
40	Sequential Projective Measurements for Channel Decoding. Physical Review Letters, 2011, 106, 250501.	7.8	35
41	Advances in quantum metrology. Nature Photonics, 2011, 5, 222-229.	31.4	2,567
42	Beauty and the noisy beast. Nature Physics, 2011, 7, 376-377.	16.7	23
43	Closed Timelike Curves via Postselection: Theory and Experimental Test of Consistency. Physical Review Letters, 2011, 106, 040403.	7.8	104
44	The Thermodynamic Arrow-of-time and Quantum Mechanics. Electronic Notes in Theoretical Computer Science, 2011, 270, 75-79.	0.9	0
45	Quantum Private Queries: Security Analysis. IEEE Transactions on Information Theory, 2010, 56, 3465-3477.	2.4	76
46	Sub-Rayleigh Imaging via<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi></mml:math>-Photon Detection. Physical Review Letters, 2010, 105, 163602.	7.8	46
47	Generalized minimal output entropy conjecture for one-mode Gaussian channels: definitions and some exact results. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 415305.	2.1	30
48	Experimental quantum private queries with linear optics. Physical Review A, 2009, 80, .	2.5	67
49	Publisher's Note: Sub-Rayleigh-diffraction-bound quantum imaging [Phys. Rev. A79, 013827 (2009)]. Physical Review A, 2009, 79, .	2.5	1
50	Robust strategies for lossy quantum interferometry. Physical Review A, 2009, 79, .	2.5	22
51	Improved resolution in imaging through quantum post-selection. , 2009, , .		0
52	Quantum Solution to the Arrow-of-Time Dilemma. Physical Review Letters, 2009, 103, 080401.	7.8	57
53	Sub-Rayleigh-diffraction-bound quantum imaging. Physical Review A, 2009, 79, .	2.5	91
54	Quantum Illumination with Gaussian States. Physical Review Letters, 2008, 101, 253601.	7.8	495

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55	Architectures for a quantum random access memory. Physical Review A, 2008, 78, .	2.5	174
56	Quantum Random Access Memory. Physical Review Letters, 2008, 100, 160501.	7.8	519
57	Quantum Private Queries. Physical Review Letters, 2008, 100, 230502.	7.8	162
58	A Quantification of Disturbance. AIP Conference Proceedings, 2007, , .	0.4	0
59	Entropic information-disturbance tradeoff. Europhysics Letters, 2007, 77, 40002.	2.0	36
60	Secret Quantum Communication of a Reference Frame. Physical Review Letters, 2007, 98, 120501.	7.8	16
61	Homodyne Tomography and the Reconstruction of Quantum States of Light. , 2007, , 141-158.		5
62	Quantum Metrology. Physical Review Letters, 2006, 96, 010401.	7.8	1,629
63	Interferometric tunability of absorption. Optics Express, 2006, 14, 8622.	3.4	1
64	Information-disturbance tradeoff in quantum measurements. Physical Review A, 2006, 73, .	2.5	48
65	Hot-cavity loading: A Heisenberg-Langevin analysis. , 2006, , .		1
66	Quantum Tomography for Imaging. Electronic Notes in Discrete Mathematics, 2005, 20, 133-150.	0.4	1
67	MINIMUM OUTPUT ENTROPY OF A GAUSSIAN BOSONIC CHANNEL. International Journal of Quantum Information, 2005, 03, 153-158.	1.1	0
68	USING QUANTUM MECHANICS TO COPE WITH LIARS. International Journal of Quantum Information, 2005, 03, 729-733.	1.1	1
69	Minimum Bosonic Channel Output Entropies. AIP Conference Proceedings, 2004, , .	0.4	6
70	Capacity of nonlinear bosonic systems. Physical Review A, 2004, 70, .	2.5	7
71	Physical Limits to Communication. Physical Review Letters, 2004, 93, 100501.	7.8	21
72	Information rate of a waveguide. Physical Review A, 2004, 69, .	2.5	6

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73	The speed limit of quantum unitary evolution. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, S807-S810.	1.4	46
74	Conveyor-belt clock synchronization. Physical Review A, 2004, 70, .	2.5	27
75	Minimum RÃ©nyi and Wehrl entropies at the output of bosonic channels. Physical Review A, 2004, 70, .	2.5	45
76	Minimum output entropy of bosonic channels: A conjecture. Physical Review A, 2004, 70, .	2.5	102
77	Quantum-Enhanced Measurements: Beating the Standard Quantum Limit. Science, 2004, 306, 1330-1336.	12.6	2,172
78	Quantum Calibration of Measurement Instrumentation. Physical Review Letters, 2004, 93, 250407.	7.8	77
79	Spin tomography. Journal of Optics B: Quantum and Semiclassical Optics, 2003, 5, 77-84.	1.4	75
80	The role of entanglement in dynamical evolution. Europhysics Letters, 2003, 62, 615-621.	2.0	68
81	Entanglement Assisted Capacity of the Broadband Lossy Channel. Physical Review Letters, 2003, 91, 047901.	7.8	53
82	Quantum limits to dynamical evolution. Physical Review A, 2003, 67, .	2.5	286
83	The quantum speed limit. , 2003, , .		6
84	Broadband channel capacities. Physical Review A, 2003, 68, .	2.5	51
85	Extended phase-matching conditions for improved entanglement generation. Physical Review A, 2002, 66, .	2.5	71
86	Positioning and clock synchronization through entanglement. Physical Review A, 2002, 65, .	2.5	84
87	Clock synchronization and dispersion. Journal of Optics B: Quantum and Semiclassical Optics, 2002, 4, S415-S417.	1.4	5
88	Quantum cryptographic ranging. Journal of Optics B: Quantum and Semiclassical Optics, 2002, 4, S413-S414.	1.4	17
89	Generating Entangled Two-Photon States with Coincident Frequencies. Physical Review Letters, 2002, 88, 183602.	7.8	95
90	Quantum-enhanced positioning and clock synchronization. Nature, 2001, 412, 417-419.	27.8	377

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91	Quorum of observables for universal quantum estimation. Journal of Physics A, 2001, 34, 93-103.	1.6	48
92	Clock Synchronization with Dispersion Cancellation. Physical Review Letters, 2001, 87, 117902.	7.8	92
93	Orthogonality relations in quantum tomography. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 276, 25-30.	2.1	24
94	STATE MEASUREMENT BY PHOTON FILTERING IN A RING CAVITY. Modern Physics Letters B, 2000, 14, 15-22.	1.9	3
95	Tomographic test of Bell's inequality. Journal of Optics B: Quantum and Semiclassical Optics, 1999, 1, 576-579.	1.4	0
96	Test of the State Reduction Rule. Physical Review Letters, 1999, 83, 2490-2493.	7.8	14
97	Quantum tomography of mesoscopic superpositions of radiation states. Physical Review A, 1999, 59, 1816-1819.	2.5	3
98	Measuring Quantum Optical Hamiltonians. Physical Review Letters, 1998, 80, 5465-5468.	7.8	26
99	Noise, Errors and Information in Quantum Amplification. International Journal of Modern Physics B, 1997, 11, 3385-3408.	2.0	2