Matteo Aâ€c Rossi

List of Publications by Year
in descending order

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31	808	566801 15	552369 26
papers	citations	h-index	g-index

31	31	31	746
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	IBM Q Experience as a versatile experimental testbed for simulating open quantum systems. Npj Quantum Information, 2020, 6, .	2.8	230
2	Entangled quantum probes for dynamical environmental noise. Physical Review A, 2015, 92, .	1.0	51
3	All-optical quantum simulator of qubit noisy channels. Applied Physics Letters, 2017, 110, 081107.	1.5	51
4	Engineering decoherence for two-qubit systems interacting with a classical environment. International Journal of Quantum Information, 2014, 12, 1560003.	0.6	50
5	Restoring Heisenberg scaling in noisy quantum metrology by monitoring the environment. Quantum - the Open Journal for Quantum Science, 0, 2, 110.	0.0	45
6	Ultimate limits for quantum magnetometry via time-continuous measurements. New Journal of Physics, 2017, 19, 123011.	1.2	44
7	Learning to Measure: Adaptive Informationally Complete Generalized Measurements for Quantum Algorithms. PRX Quantum, 2021, 2, .	3.5	37
8	Non-Markovian dynamics of single- and two-qubit systems interacting with Gaussian and non-Gaussian fluctuating transverse environments. Journal of Chemical Physics, 2016, 144, 024113.	1.2	30
9	Noisy Quantum Metrology Enhanced by Continuous Nondemolition Measurement. Physical Review Letters, 2020, 125, 200505.	2.9	28
10	Quantum metrology beyond the quantum CramÃ©r-Rao theorem. Physical Review A, 2017, 95, .	1.0	27
11	Decoherence without entanglement and quantum Darwinism. Physical Review Research, 2020, 2, .	1.3	26
12	Continuous-time quantum walks on spatially correlated noisy lattices. Physical Review A, 2017, 96, .	1.0	19
13	Quantum spatial search on graphs subject to dynamical noise. Physical Review A, 2018, 98, .	1.0	19
14	Learning Feedback Control Strategies for Quantum Metrology. PRX Quantum, 2022, 3, .	3.5	19
15	Continuous-time quantum walks on dynamical percolation graphs. Europhysics Letters, 2018, 124, 60001.	0.7	18
16	Enhanced estimation of loss in the presence of Kerr nonlinearity. Physical Review A, 2016, 93, .	1.0	17
17	Probing the diamagnetic term in lightâ€“matter interaction. Quantum Science and Technology, 2017, 2, 01LT01.	2.6	16
18	Probing deformed quantum commutators. Physical Review D, 2016, 94, .	1.6	12

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19	Effective description of the short-time dynamics in open quantum systems. Physical Review A, 2017, 96, .	1.0	12
20	Pairwise tomography networks for many-body quantum systems. Physical Review Research, 2020, 2, .	1.3	12
21	Efficient quantum transport in a multi-site system combining classical noise and quantum baths. New Journal of Physics, 2020, 22, 013028.	1.2	10
22	Stochastic collision model approach to transport phenomena in quantum networks. New Journal of Physics, 2021, 23, 033031.	1.2	10
23	Non-Markovianity by undersampling in quantum optical simulators. International Journal of Quantum Information, 2017, 15, 1740009.	0.6	6
24	Witnessing objectivity on a quantum computer. Quantum Science and Technology, 2022, 7, 015022.	2.6	6
25	Non-Markovianity is not a resource for quantum spatial search on a star graph subject to generalized percolation. Quantum Measurements and Quantum Metrology, 2018, 5, 40-49.	3.3	5
26	Quantum frequency estimation with conditional states of continuously monitored independent dephasing channels. International Journal of Quantum Information, 2020, 18, 1941013.	0.6	5
27	Emergent entanglement structures and self-similarity in quantum spin chains. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2022, 380, .	1.6	3
28	Continuous Measurements for Advanced Quantum Metrology. Proceedings (mdpi), 2019, 12, .	0.2	0
29	Quantum Simulation of Non-Markovian Qubit Dynamics by an All-Optical Setup. , 2018, , 37-46.		0
30	The Role of Monitoring Time and Detectors Efficiencies in Time-Continuous Quantum Magnetometry. , 2018, , 127-139.		0
31	Restoring Heisenberg scaling in noisy quantum metrology by monitoring the environment. , 2019, , .		0