

Matteo Aâ€™c Rossi

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

808
citations

566801

15
h-index

552369

26
g-index

31
all docs

31
docs citations

31
times ranked

746
citing authors

#	ARTICLE	IF	CITATIONS
1	Witnessing objectivity on a quantum computer. <i>Quantum Science and Technology</i> , 2022, 7, 015022.	2.6	6
2	Learning Feedback Control Strategies for Quantum Metrology. <i>PRX Quantum</i> , 2022, 3, .	3.5	19
3	Emergent entanglement structures and self-similarity in quantum spin chains. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022, 380, .	1.6	3
4	Stochastic collision model approach to transport phenomena in quantum networks. <i>New Journal of Physics</i> , 2021, 23, 033031.	1.2	10
5	Learning to Measure: Adaptive Informationally Complete Generalized Measurements for Quantum Algorithms. <i>PRX Quantum</i> , 2021, 2, .	3.5	37
6	Noisy Quantum Metrology Enhanced by Continuous Nondemolition Measurement. <i>Physical Review Letters</i> , 2020, 125, 200505.	2.9	28
7	Quantum frequency estimation with conditional states of continuously monitored independent dephasing channels. <i>International Journal of Quantum Information</i> , 2020, 18, 1941013.	0.6	5
8	Efficient quantum transport in a multi-site system combining classical noise and quantum baths. <i>New Journal of Physics</i> , 2020, 22, 013028.	1.2	10
9	IBM Q Experience as a versatile experimental testbed for simulating open quantum systems. <i>Npj Quantum Information</i> , 2020, 6, .	2.8	230
10	Decoherence without entanglement and quantum Darwinism. <i>Physical Review Research</i> , 2020, 2, .	1.3	26
11	Pairwise tomography networks for many-body quantum systems. <i>Physical Review Research</i> , 2020, 2, .	1.3	12
12	Continuous Measurements for Advanced Quantum Metrology. <i>Proceedings (mdpi)</i> , 2019, 12, .	0.2	0
13	Restoring Heisenberg scaling in noisy quantum metrology by monitoring the environment. , 2019, , .		0
14	Non-Markovianity is not a resource for quantum spatial search on a star graph subject to generalized percolation. <i>Quantum Measurements and Quantum Metrology</i> , 2018, 5, 40-49.	3.3	5
15	Quantum spatial search on graphs subject to dynamical noise. <i>Physical Review A</i> , 2018, 98, .	1.0	19
16	Continuous-time quantum walks on dynamical percolation graphs. <i>Europhysics Letters</i> , 2018, 124, 60001.	0.7	18
17	Quantum Simulation of Non-Markovian Qubit Dynamics by an All-Optical Setup. , 2018, , 37-46.		0
18	The Role of Monitoring Time and Detectors Efficiencies in Time-Continuous Quantum Magnetometry. , 2018, , 127-139.		0

#	ARTICLE	IF	CITATIONS
19	All-optical quantum simulator of qubit noisy channels. Applied Physics Letters, 2017, 110, 081107.	1.5	51
20	Quantum metrology beyond the quantum Cram�r-Rao theorem. Physical Review A, 2017, 95, .	1.0	27
21	Continuous-time quantum walks on spatially correlated noisy lattices. Physical Review A, 2017, 96, .	1.0	19
22	Probing the diamagnetic term in light�matter interaction. Quantum Science and Technology, 2017, 2, 01LT01.	2.6	16
23	Effective description of the short-time dynamics in open quantum systems. Physical Review A, 2017, 96, .	1.0	12
24	Non-Markovianity by undersampling in quantum optical simulators. International Journal of Quantum Information, 2017, 15, 1740009.	0.6	6
25	Ultimate limits for quantum magnetometry via time-continuous measurements. New Journal of Physics, 2017, 19, 123011.	1.2	44
26	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
27	Enhanced estimation of loss in the presence of Kerr nonlinearity. Physical Review A, 2016, 93, .	1.0	17
28	Probing deformed quantum commutators. Physical Review D, 2016, 94, .	1.6	12
29	Entangled quantum probes for dynamical environmental noise. Physical Review A, 2015, 92, .	1.0	51
30	Engineering decoherence for two-qubit systems interacting with a classical environment. International Journal of Quantum Information, 2014, 12, 1560003.	0.6	50
31	Restoring Heisenberg scaling in noisy quantum metrology by monitoring the environment. Quantum - the Open Journal for Quantum Science, 0, 2, 110.	0.0	45