Filippo Caruso

List of Publications by Year
in descending order

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72	2,985	218677	161849
papers	citations	26 h-index	54 g-index

72	72	72	2207
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Transfer-tensor description of memory effects in open-system dynamics and multi-time statistics. Quantum Science and Technology, 2022, 7, 025005.	5.8	6
2	Quantum Noise Sensing by Generating Fake Noise. Physical Review Applied, 2022, 17, .	3.8	3
3	Experimental multi-state quantum discrimination through optical networks. Quantum Science and Technology, 2022, 7, 025028.	5.8	2
4	Learning the noise fingerprint of quantum devices. Quantum Machine Intelligence, 2022, 4, 1.	4.8	10
5	Noise fingerprints in quantum computers: Machine learning software tools. Software Impacts, 2022, 12, 100260.	1.4	3
6	Information flow and error scaling for fully quantum control. Physical Review Research, 2022, 4, .	3.6	4
7	Quantum reinforcement learning: the maze problem. Quantum Machine Intelligence, 2022, 4, .	4.8	5
8	Experimental Quantum Embedding for Machine Learning. Advanced Quantum Technologies, 2022, 5, .	3.9	5
9	Quantum Zeno and Anti-Zeno Probes of Noise Correlations in Photon Polarization. Physical Review Letters, 2022, 129, .	7.8	12
10	How to enhance quantum generative adversarial learning of noisy information. New Journal of Physics, 2021, 23, 053024.	2.9	6
11	Quantum Stochastic Walk models for quantum state discrimination. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126195.	2.1	0
12	Noise sensing via stochastic quantum Zeno. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126244.	2.1	12
13	Stabilizing open quantum batteries by sequential measurements. Physical Review Research, 2020, 2, .	3.6	55
14	Irreversibility mitigation in unital non-Markovian quantum evolutions. Physical Review Research, 2020, 2, .	3.6	5
15	Quantum state discrimination on reconfigurable noise-robust quantum networks. Physical Review Research, 2020, 2, .	3.6	8
16	Advances in Sequential Measurement and Control of Open Quantum Systems. Proceedings (mdpi), 2019, 12, 11.	0.2	3
17	Entanglement Assisted Transport of Two Walkers in Noisy Quantum Networks. Proceedings (mdpi), 2019, 12, 36.	0.2	0
18	Role of the filter functions in noise spectroscopy. International Journal of Quantum Information, 2019, 17, 1941008.	1.1	3

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19	Experimental proof of quantum Zeno-assisted noise sensing. New Journal of Physics, 2019, 21, 113056.	2.9	23
20	Thermodynamic properties of stochastic quantum measurements. , 2019, , .		0
21	How to suppress dark states in quantum networks and bio-engineered structures. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 365306.	2.1	2
22	Noise-robust quantum sensing via optimal multi-probe spectroscopy. Scientific Reports, 2018, 8, 14278.	3.3	21
23	Nonequilibrium quantum-heat statistics under stochastic projective measurements. Physical Review E, 2018, 98, .	2.1	24
24	Reconstructing quantum entropy production to probe irreversibility and correlations. Quantum Science and Technology, 2018, 3, 035013.	5.8	18
25	Ergodicity in randomly perturbed quantum systems. Quantum Science and Technology, 2017, 2, 015007.	5.8	19
26	Quantum Zeno Dynamics Through Stochastic Protocols. Annalen Der Physik, 2017, 529, 1600206.	2.4	34
27	Stochastic quantum Zeno by large deviation theory. New Journal of Physics, 2016, 18, 013048.	2.9	31
28	Stochastic quantum Zeno-based detection of noise correlations. Scientific Reports, 2016, 6, 38650.	3.3	19
29	Disorder and dephasing as control knobs for light transport in optical fiber cavity networks. Scientific Reports, 2016, 6, 37791.	3.3	12
30	Optimal preparation of quantum states on an atom-chip device. Physical Review A, 2016, 93, .	2.5	19
31	Fisher information from stochastic quantum measurements. Physical Review A, 2016, 94, .	2.5	12
32	Fast escape of a quantum walker from an integrated photonic maze. Nature Communications, 2016, 7, 11682.	12.8	72
33	Enhanced energy transport in genetically engineered excitonic networks. Nature Materials, 2016, 15, 211-216.	27.5	82
34	Observation of Noise-Assisted Transport in an All-Optical Cavity-Based Network. Physical Review Letters, 2015, 115, 083601.	7.8	52
35	Investigating the ocular temperature rise during femtosecond laser lens fragmentation: an in vitro study. Graefe's Archive for Clinical and Experimental Ophthalmology, 2015, 253, 2203-2210.	1.9	6
36	Quantum state reconstruction on atom-chips. New Journal of Physics, 2015, 17, 093024.	2.9	9

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37	â€˜Momentum rejuvenationâ€™ underlies the phenomenon of noise-assisted quantum energy flow. New Journal of Physics, 2015, 17, 013057.	2.9	18
38	Realistic and verifiable coherent control of excitonic states in a light-harvesting complex. New Journal of Physics, 2014, 16, 045007.	2.9	35
39	Quantum channels and memory effects. Reviews of Modern Physics, 2014, 86, 1203-1259.	45.6	232
40	Experimental realization of quantum zeno dynamics. Nature Communications, 2014, 5, 3194.	12.8	129
41	Universally optimal noisy quantum walks on complex networks. New Journal of Physics, 2014, 16, 055015.	2.9	39
42	Spatial entanglement of bosons in optical lattices. Nature Communications, 2013, 4, 2161.	12.8	64
43	Quantum diffusion with disorder, noise and interaction. New Journal of Physics, 2013, 15, 045007.	2.9	35
44	Coherent optimal control of photosynthetic molecules. Physical Review A, 2012, 85, .	2.5	44
45	Quantum limits for the magnetic sensitivity of a chemical compass. Physical Review A, 2012, 85, .	2.5	53
46	Probing biological light-harvesting phenomena by optical cavities. Physical Review B, 2012, 85, .	3.2	28
47	Prediction of extreme events in the OFC model on a small world network. European Physical Journal B, 2011, 79, 7-11.	1.5	17
48	Optimal unitary dilation for bosonic Gaussian channels. Physical Review A, 2011, 84, .	2.5	24
49	Simulation of noise-assisted transport via optical cavity networks. Physical Review A, 2011, 83, .	2.5	28
50	Noise-assisted energy transfer in quantum networks and light-harvesting complexes. New Journal of Physics, 2010, 12, 065002.	2.9	262
51	Entanglement and entangling power of the dynamics in light-harvesting complexes. Physical Review A, 2010, 81, .	2.5	181
52	Noise-Enhanced Classical and Quantum Capacities in Communication Networks. Physical Review Letters, 2010, 105, 190501.	7.8	64
53	Teleportation-Induced Correlated Quantum Channels. Physical Review Letters, 2010, 104, 020503.	7.8	14
54	Noise enhanced transport in light-harvesting complexes and networks. , 2009, , .		1

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55	Highly efficient energy excitation transfer in light-harvesting complexes: The fundamental role of noise-assisted transport. Journal of Chemical Physics, 2009, 131, .	3.0	527
56	Nonadditive entropy reconciles the area law in quantum systems with classical thermodynamics. Physical Review E, 2008, 78, 021102.	2.1	112
57	A NEW APPROACH TO CHARACTERIZE QUBIT CHANNELS. International Journal of Quantum Information, 2008, 06, 621-626.	1.1	1
58	Multi-mode bosonic Gaussian channels. New Journal of Physics, 2008, 10, 083030.	2.9	70
59	Qubit channels with small correlations. Physical Review A, 2008, 77, .	2.5	12
60	Publisher's Note: Qubit channels with small correlations [Phys. Rev. A77, 052323 (2008)]. Physical Review A, 2008, 77, .	2.5	0
61	Qubit quantum channels: A characteristic function approach. Physical Review A, 2007, 76, .	2.5	9
62	Analysis of self-organized criticality in the Olami-Feder-Christensen model and in real earthquakes. Physical Review E, 2007, 75, 055101.	2.1	124
63	Self-Organized Criticality and earthquakes. AIP Conference Proceedings, 2007, , .	0.4	2
64	Extensive nonadditive entropy in quantum spin chains. AIP Conference Proceedings, 2007, , .	0.4	5
65	Olami-Feder-Christensen model on different networks. European Physical Journal B, 2006, 50, 243-247.	1.5	27
66	One-mode bosonic Gaussian channels: a full weak-degradability classification. New Journal of Physics, 2006, 8, 310-310.	2.9	111
67	Degradability of Bosonic Gaussian channels. Physical Review A, 2006, 74, .	2.5	68
68	MULTIFRACTAL ANALYSIS OF MOUNT St. HELENS SEISMICITY AS A TOOL FOR IDENTIFYING ERUPTIVE ACTIVITY. Fractals, 2006, 14, 179-186.	3.7	11
69	Slow light amplification in a non-inverted gain medium. Europhysics Letters, 2005, 69, 938-944.	2.0	3
70	Robustness of a quantum key distribution with two and three mutually unbiased bases. Physical Review A, 2005, 72, .	2.5	15
71	OPINION DYNAMICS AND DECISION OF VOTE IN BIPOLAR POLITICAL SYSTEMS. International Journal of Modern Physics C, 2005, 16, 1473-1487.	1.7	18
72	THE OLAMI-FEDER-CHRISTENSEN MODEL ON A SMALL-WORLD TOPOLOGY. , 2005, , .		5