Elisabetta Paladino

List of Publications by Year
in descending order

86 papers	2,345 citations	279701 23 h-index	214721 47 g-index
86 all docs	86 docs citations	86 times ranked	1479 citing authors

#	Article	IF	Citations
1	Heat rectification through single and coupled quantum dots. New Journal of Physics, 2022, 24, 035001.	1.2	11
2	A tutorial on optimal control and reinforcement learning methods for quantum technologies. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 434, 128054.	0.9	22
3	Low-frequency critical current noise in graphene Josephson junctions in the open-circuit gate voltage limit. European Physical Journal: Special Topics, 2021, 230, 821-825.	1.2	3
4	Thermal rectification through a nonlinear quantum resonator. Physical Review B, 2021, 103, .	1.1	20
5	Probing ultrastrong lightâ€“matter coupling in open quantum systems. European Physical Journal: Special Topics, 2021, 230, 941-945.	1.2	4
6	Reinforcement learning-enhanced protocols for coherent population-transfer in three-level quantum systems. New Journal of Physics, 2021, 23, 093035.	1.2	14
7	1/f critical current noise in short ballistic graphene Josephson junctions. Communications Physics, 2020, 3, .	2.0	14
8	Ultrastrong coupling probed by Coherent Population Transfer. Scientific Reports, 2019, 9, 9249.	1.6	15
9	Graphene Josephson Junction Quantum Circuits for Noise Detection. Proceedings (mdpi), 2019, 12, .	0.2	4
10	Quantum Sensing 1/f Noise via Pulsed Control of a Two-Qubit Gate. Proceedings (mdpi), 2019, 12, 29.	0.2	1
11	Speedup of Adiabatic Multiqubit State-Transfer by Ultrastrong Coupling of Matter and Radiation. Proceedings (mdpi), 2019, 12, 35.	0.2	0
12	Charge carrier density noise in graphene: effect of localized/delocalized traps. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 094015.	0.9	8
13	Photon pair production by STIRAP in ultrastrongly coupled matter-radiation systems. European Physical Journal: Special Topics, 2019, 227, 2183-2188.	1.2	8
14	Coherent trapping in small quantum networks. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 124024.	0.9	3
15	Quantum Zeno and anti-Zeno effect on a two-qubit gate by dynamical decoupling. European Physical Journal: Special Topics, 2019, 227, 2189-2194.	1.2	4
16	Detector's quantum backaction effects on a mesoscopic conductor and fluctuationâ€dissipation relation. Fortschritte Der Physik, 2017, 65, 1600059.	1.5	0
17	Advances in quantum control of threeâ€level superconducting circuit architectures. Fortschritte Der Physik, 2017, 65, 1600077.	1.5	30
18	Quantum Control in Qutrit Systems Using Hybrid Rabi-STIRAP Pulses. Photonics, 2016, 3, 62.	0.9	22

#	Article	IF	Citations
19	High-fidelity two-qubit gates via dynamical decoupling of local<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mi>f</mml:mi> at the optimal point. Physical Review A, 2016, 94, .		
20	Coherent manipulation of noise-protected superconducting artificial atoms in the Lambda scheme. Physical Review A, 2016, 93, .	1.0	35
21	Population transfer in a Lambda system induced by detunings. Physical Review B, 2015, 91, .	1.1	26
22	Experimental on-demand recovery of entanglement by local operations within non-Markovian dynamics. Scientific Reports, 2015, 5, 8575.	1.6	132
23	Dynamical decoupling of local transverse random telegraph noise in a two-qubit gate. Physica Scripta, 2015, T165, 014037.	1.2	2
24	Hidden entanglement, system-environment information flow and non-Markovianity. International Journal of Quantum Information, 2014, 12, 1461005.	0.6	39
25	The physics of quantum computation. International Journal of Quantum Information, 2014, 12, 1430003.	0.6	3
26	Dynamical decoupling of random telegraph noise in a two-qubit gate. International Journal of Quantum Information, 2014, 12, 1461008.	0.6	2
27	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn mathvariant="bold-sans-serif">1</mml:mn><mml:mo>/</mml:mo><mml:mi mathvariant="sans-serif-bold-italic">f</mml:mi></mml:math>noise: Implications for solid-state quantum information. Reviews of Modern Physics, 2014, 86, 361-418.	16.4	409
28	Recovering entanglement by local operations. Annals of Physics, 2014, 350, 211-224.	1.0	105
29	Preserving entanglement and nonlocality in solid-state qubits by dynamical decoupling. Physical Review B, 2014, 90, .	1.1	93
30	Hidden entanglement in the presence of random telegraph dephasing noise. Physica Scripta, 2013, T153, 014014.	1.2	28
31	Spin-echo entanglement protection from random telegraph noise. Physica Scripta, 2013, T153, 014043.	1.2	9
32	Design of a Lambda system for population transfer in superconducting nanocircuits. Physical Review B, 2013, 87, .	1.1	87
33	Superconducting qubit manipulated by fast pulses: experimental observation of distinct decoherence regimes. New Journal of Physics, 2012, 14, 023031.	1.2	22
34	Optimal operating conditions of an entangling two-transmon gate. New Journal of Physics, 2012, 14, 053035.	1.2	11
35	Effects of low-frequency noise in driven coherent nanodevices. Physica Scripta, 2012, T151, 014020.	1.2	4
36	Purcell effect in a circuit-QED architecture implementation of a universal two-qubit gate. Physica Scripta, 2012, T151, 014048.	1.2	2

#	Article	IF	Citations
37	Entanglement dynamics in superconducting qubits affected by local bistable impurities. Physica Scripta, 2012, T147, 014019.	1.2	56
38	Decoherence times of universal two-qubit gates in the presence of broad-band noise. New Journal of Physics, 2011, 13, 093037.	1.2	25
39	Coherent properties of nanoelectromechanical systems. Physical Review B, 2011, 83, .	1.1	29
40	EFFECT OF LOW-FREQUENCY NOISE ON ADIABATIC PASSAGE IN A SUPERCONDUCTING NANOCIRCUIT. International Journal of Quantum Information, 2011, 09, 1-15.	0.6	8
41	DYNAMICS OF A QUANTUM PARTICLE IN ASYMMETRIC BISTABLE POTENTIAL WITH ENVIRONMENTAL NOISE. International Journal of Quantum Information, 2011, 09, 119-127.	0.6	10
42	DECAY OF NONLOCALITY DUE TO ADIABATIC AND QUANTUM NOISE IN THE SOLID STATE. International Journal of Quantum Information, 2011, 09, 63-71.	0.6	4
43	Entanglement degradation in the solid state: Interplay of adiabatic and quantum noise. Physical Review A, 2010, 81, .	1.0	40
44	Relaxation processes in solid-state two-qubit gates. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 439-443.	1.3	4
45	Dynamics of Weyl wave-packets in a noisy environment. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 584-589.	1.3	1
46	Detection of finite-frequency photoassisted shot noise with a resonant circuit. Physical Review B, 2010, 81, .	1.1	14
47	Optimal tuning of solid-state quantum gates: A universal two-qubit gate. Physical Review B, 2010, 81, .	1.1	29
48	Coupled qubits: effects of transverse slow noise. Physica Scripta, 2009, 80, 025803.	1.2	0
49	Broadband noise decoherence in solid-state complex architectures. Physica Scripta, 2009, T137, 014017.	1.2	9
50	Coupled Josephson qubits: Characterization of low-frequency charge noise. European Physical Journal: Special Topics, 2008, 160, 291-300.	1.2	4
51	PROTECTED COMPUTATIONAL SUBSPACES OF COUPLED SUPERCONDUCTING QUBITS. International Journal of Quantum Information, 2008, 06, 645-650.	0.6	2
52	Phonon distributions of a single-bath mode coupled to a quantum dot. New Journal of Physics, 2008, 10, 115004.	1.2	17
53	Effects of low-frequency noise cross-correlations in coupled superconducting qubits. New Journal of Physics, 2008, 10, 115006.	1.2	19
54	Characterization of coherent impurity effects in solid-state qubits. Physical Review B, 2008, 77, .	1.1	35

#	Article	IF	Citations
55	Focus on Quantum Dissipation in Unconventional Environments. New Journal of Physics, 2008, 10, 115003.	1.2	5
56	STIMULATED RAMAN ADIABATIC PASSAGE WITH A COOPER PAIR BOX. , 2008, , .		0
57	CHARACTERIZATION OF ADIABATIC NOISE IN CHARGE-BASED COHERENT NANODEVICES. , 2008, , .		0
58	Spin-boson dynamics: A unified approach from weak to strong coupling. Europhysics Letters, 2007, 80, 40005.	0.7	9
59	Dynamics of a qubit coupled to a broadened harmonic mode at finite detuning. New Journal of Physics, 2007, 9, 316-316.	1.2	23
60	Detection of Finite-Frequency Current Moments with a Dissipative Resonant Circuit. Physical Review Letters, 2007, 99, 066601.	2.9	19
61	Spin-boson dynamics beyond conventional perturbation theories. Physical Review B, 2007, 76, .	1.1	24
62	Structured environments in solid state systems: Crossover from Gaussian to non-Gaussian behavior. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 40, 198-205.	1.3	7
63	Pure dephasing due to damped bistable quantum impurities. Chemical Physics, 2006, 322, 98-107.	0.9	6
64	Low-Frequency Noise Characterization in Charge-Based Coherent Nanodevices. Open Systems and Information Dynamics, 2006, 13, 323-332.	0.5	4
65	DECOHERENCE DUE TO TELEGRAPH AND 1/F NOISE IN JOSEPHSON QUBITS. , 2005, , .		2
66	Quantum control of discrete noise in Josephson qubits. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 29, 297-307.	1.3	7
67	Initial Decoherence in Solid State Qubits. Physical Review Letters, 2005, 94, 167002.	2.9	133
68	Dynamical suppression of telegraph and1â^•fnoise due to quantum bistable fluctuators. Physical Review A, 2004, 70, .	1.0	69
69	Semiclassical Analysis of 1/fNoise in Josephson Qubits. , 2004, , 237-245.		0
70	Modulation of dephasing due to a spin-boson environment. Chemical Physics, 2004, 296, 325-332.	0.9	11
71	Dynamics of the spin-boson model with a structured environment. Chemical Physics, 2004, 296, 333-344.	0.9	91
72	Decoherence and 1/f noise in Josephson qubits. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 18, 29-30.	1.3	12

#	Article	IF	Citations
73	Josephson nanocircuit in the presence of linear quantum noise. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 18, 39-40.	1.3	10
74	Background Charges Induced Stochastic Fluctuations in Josephson Qubits. Journal of the Physical Society of Japan, 2003, 72, 165-166.	0.7	0
75	Decoherence and1/fNoise in Josephson Qubits. Physical Review Letters, 2002, 88, 228304.	2.9	287
76	1/f Noise in Josephson Qubits. , 2002, , 15-24.		0
77	Josephson Qubits For Quantum Computation. , 2002, , 265-274.		0
78	Electron transfer in the nonadiabatic regime: Crossover from quantum-mechanical to classical behaviour. Chemical Physics, 1999, 244, 111-125.	0.9	16
79	Dissipation, decoherence and preparation effects in the spin-boson system. European Physical Journal B, 1999, 10, 719-729.	0.6	68
80	Decay of correlations in the dissipative two-state system. Europhysics Letters, 1998, 43, 117-122.	0.7	2
81	Coherence correlations in the dissipative two-state system. Physical Review E, 1998, 58, 4288-4298.	0.8	4
82	An operator approach to the construction of generating functions for products of associated Laguerre polynomials. Journal of Physics A, 1996, 29, L263-L270.	1.6	9
83	Ground-state symmetry classification for a non-isolated tunnelling particle. Journal of Physics A, 1996, 29, 2485-2492.	1.6	2
84	Intraenvironmental Correlations in the Ground State of a Nonisolated Two-State Particle. Journal De Physique, I, 1996, 6, 783-791.	1.2	0
85	Physical properties of the ground state of a tunnelling particle in a phonon field in the intermediate coupling regime. Radiation Effects and Defects in Solids, 1995, 134, 205-208.	0.4	0
86	Decoherence Due to Discrete Noise in Josephson Qubits. Advances in Solid State Physics, 0, , 747-762.	0.8	25