

Elisabetta Paladino

List of Publications by Year in descending order

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docs citations

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times ranked

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citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | $\langle \text{noise} \rangle$: Implications for solid-state quantum information. <i>Reviews of Modern Physics</i> , 2014, 86, 361-418. | 16.4 | 409 |
| 2 | Decoherence and $1/f$ Noise in Josephson Qubits. <i>Physical Review Letters</i> , 2002, 88, 228304. | 2.9 | 287 |
| 3 | Initial Decoherence in Solid State Qubits. <i>Physical Review Letters</i> , 2005, 94, 167002. | 2.9 | 133 |
| 4 | Experimental on-demand recovery of entanglement by local operations within non-Markovian dynamics. <i>Scientific Reports</i> , 2015, 5, 8575. | 1.6 | 132 |
| 5 | Recovering entanglement by local operations. <i>Annals of Physics</i> , 2014, 350, 211-224. | 1.0 | 105 |
| 6 | Preserving entanglement and nonlocality in solid-state qubits by dynamical decoupling. <i>Physical Review B</i> , 2014, 90, . | 1.1 | 93 |
| 7 | Dynamics of the spin-boson model with a structured environment. <i>Chemical Physics</i> , 2004, 296, 333-344. | 0.9 | 91 |
| 8 | Design of a Lambda system for population transfer in superconducting nanocircuits. <i>Physical Review B</i> , 2013, 87, . | 1.1 | 87 |
| 9 | Dynamical suppression of telegraph and $1/f$ noise due to quantum bistable fluctuators. <i>Physical Review A</i> , 2004, 70, . | 1.0 | 69 |
| 10 | Dissipation, decoherence and preparation effects in the spin-boson system. <i>European Physical Journal B</i> , 1999, 10, 719-729. | 0.6 | 68 |
| 11 | Entanglement dynamics in superconducting qubits affected by local bistable impurities. <i>Physica Scripta</i> , 2012, T147, 014019. | 1.2 | 56 |
| 12 | Entanglement degradation in the solid state: Interplay of adiabatic and quantum noise. <i>Physical Review A</i> , 2010, 81, . | 1.0 | 40 |
| 13 | Hidden entanglement, system-environment information flow and non-Markovianity. <i>International Journal of Quantum Information</i> , 2014, 12, 1461005. | 0.6 | 39 |
| 14 | Characterization of coherent impurity effects in solid-state qubits. <i>Physical Review B</i> , 2008, 77, . | 1.1 | 35 |
| 15 | Coherent manipulation of noise-protected superconducting artificial atoms in the Lambda scheme. <i>Physical Review A</i> , 2016, 93, . | 1.0 | 35 |
| 16 | Advances in quantum control of three-level superconducting circuit architectures. <i>Fortschritte Der Physik</i> , 2017, 65, 1600077. | 1.5 | 30 |
| 17 | Optimal tuning of solid-state quantum gates: A universal two-qubit gate. <i>Physical Review B</i> , 2010, 81, . | 1.1 | 29 |
| 18 | Coherent properties of nanoelectromechanical systems. <i>Physical Review B</i> , 2011, 83, . | 1.1 | 29 |

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|----|--|-----|-----------|
| 19 | Hidden entanglement in the presence of random telegraph dephasing noise. <i>Physica Scripta</i> , 2013, T153, 014014. | 1.2 | 28 |
| 20 | Population transfer in a Lambda system induced by detunings. <i>Physical Review B</i> , 2015, 91, . | 1.1 | 26 |
| 21 | Decoherence Due to Discrete Noise in Josephson Qubits. <i>Advances in Solid State Physics</i> , 0, , 747-762. | 0.8 | 25 |
| 22 | Decoherence times of universal two-qubit gates in the presence of broad-band noise. <i>New Journal of Physics</i> , 2011, 13, 093037. | 1.2 | 25 |
| 23 | Spin-boson dynamics beyond conventional perturbation theories. <i>Physical Review B</i> , 2007, 76, . | 1.1 | 24 |
| 24 | Dynamics of a qubit coupled to a broadened harmonic mode at finite detuning. <i>New Journal of Physics</i> , 2007, 9, 316-316. | 1.2 | 23 |
| 25 | Superconducting qubit manipulated by fast pulses: experimental observation of distinct decoherence regimes. <i>New Journal of Physics</i> , 2012, 14, 023031. | 1.2 | 22 |
| 26 | Quantum Control in Qutrit Systems Using Hybrid Rabi-STIRAP Pulses. <i>Photonics</i> , 2016, 3, 62. | 0.9 | 22 |
| 27 | A tutorial on optimal control and reinforcement learning methods for quantum technologies. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022, 434, 128054. | 0.9 | 22 |
| 28 | Thermal rectification through a nonlinear quantum resonator. <i>Physical Review B</i> , 2021, 103, . | 1.1 | 20 |
| 29 | Detection of Finite-Frequency Current Moments with a Dissipative Resonant Circuit. <i>Physical Review Letters</i> , 2007, 99, 066601. | 2.9 | 19 |
| 30 | Effects of low-frequency noise cross-correlations in coupled superconducting qubits. <i>New Journal of Physics</i> , 2008, 10, 115006. | 1.2 | 19 |
| 31 | Phonon distributions of a single-bath mode coupled to a quantum dot. <i>New Journal of Physics</i> , 2008, 10, 115004. | 1.2 | 17 |
| 32 | Electron transfer in the nonadiabatic regime: Crossover from quantum-mechanical to classical behaviour. <i>Chemical Physics</i> , 1999, 244, 111-125. | 0.9 | 16 |
| 33 | Ultrastrong coupling probed by Coherent Population Transfer. <i>Scientific Reports</i> , 2019, 9, 9249. | 1.6 | 15 |
| 34 | Detection of finite-frequency photoassisted shot noise with a resonant circuit. <i>Physical Review B</i> , 2010, 81, . | 1.1 | 14 |
| 35 | $1/f$ critical current noise in short ballistic graphene Josephson junctions. <i>Communications Physics</i> , 2020, 3, . | 2.0 | 14 |
| 36 | Reinforcement learning-enhanced protocols for coherent population-transfer in three-level quantum systems. <i>New Journal of Physics</i> , 2021, 23, 093035. | 1.2 | 14 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Decoherence and $1/f$ noise in Josephson qubits. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003, 18, 29-30. | 1.3 | 12 |
| 38 | Modulation of dephasing due to a spin-boson environment. <i>Chemical Physics</i> , 2004, 296, 325-332. | 0.9 | 11 |
| 39 | Optimal operating conditions of an entangling two-transmon gate. <i>New Journal of Physics</i> , 2012, 14, 053035. | 1.2 | 11 |
| 40 | Heat rectification through single and coupled quantum dots. <i>New Journal of Physics</i> , 2022, 24, 035001. | 1.2 | 11 |
| 41 | Josephson nanocircuit in the presence of linear quantum noise. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003, 18, 39-40. | 1.3 | 10 |
| 42 | DYNAMICS OF A QUANTUM PARTICLE IN ASYMMETRIC BISTABLE POTENTIAL WITH ENVIRONMENTAL NOISE. <i>International Journal of Quantum Information</i> , 2011, 09, 119-127. | 0.6 | 10 |
| 43 | An operator approach to the construction of generating functions for products of associated Laguerre polynomials. <i>Journal of Physics A</i> , 1996, 29, L263-L270. | 1.6 | 9 |
| 44 | Spin-boson dynamics: A unified approach from weak to strong coupling. <i>Europhysics Letters</i> , 2007, 80, 40005. | 0.7 | 9 |
| 45 | Broadband noise decoherence in solid-state complex architectures. <i>Physica Scripta</i> , 2009, T137, 014017. | 1.2 | 9 |
| 46 | Spin-echo entanglement protection from random telegraph noise. <i>Physica Scripta</i> , 2013, T153, 014043. | 1.2 | 9 |
| 47 | EFFECT OF LOW-FREQUENCY NOISE ON ADIABATIC PASSAGE IN A SUPERCONDUCTING NANOCIRCUIT. <i>International Journal of Quantum Information</i> , 2011, 09, 1-15. | 0.6 | 8 |
| 48 | Charge carrier density noise in graphene: effect of localized/delocalized traps. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2019, 2019, 094015. | 0.9 | 8 |
| 49 | Photon pair production by STIRAP in ultrastrongly coupled matter-radiation systems. <i>European Physical Journal: Special Topics</i> , 2019, 227, 2183-2188. | 1.2 | 8 |
| 50 | Quantum control of discrete noise in Josephson qubits. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005, 29, 297-307. | 1.3 | 7 |
| 51 | Structured environments in solid state systems: Crossover from Gaussian to non-Gaussian behavior. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 40, 198-205. | 1.3 | 7 |
| 52 | Pure dephasing due to damped bistable quantum impurities. <i>Chemical Physics</i> , 2006, 322, 98-107. | 0.9 | 6 |
| 53 | Focus on Quantum Dissipation in Unconventional Environments. <i>New Journal of Physics</i> , 2008, 10, 115003. | 1.2 | 5 |
| 54 | Coherence correlations in the dissipative two-state system. <i>Physical Review E</i> , 1998, 58, 4288-4298. | 0.8 | 4 |

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|----|---|-----|-----------|
| 55 | Low-Frequency Noise Characterization in Charge-Based Coherent Nanodevices. Open Systems and Information Dynamics, 2006, 13, 323-332. | 0.5 | 4 |
| 56 | Coupled Josephson qubits: Characterization of low-frequency charge noise. European Physical Journal: Special Topics, 2008, 160, 291-300. | 1.2 | 4 |
| 57 | Relaxation processes in solid-state two-qubit gates. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 439-443. | 1.3 | 4 |
| 58 | 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 |
| 59 | Effects of low-frequency noise in driven coherent nanodevices. Physica Scripta, 2012, T151, 014020. | 1.2 | 4 |
| 60 | Graphene Josephson Junction Quantum Circuits for Noise Detection. Proceedings (mdpi), 2019, 12, . | 0.2 | 4 |
| 61 | 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 |
| 62 | Probing ultrastrong light-matter coupling in open quantum systems. European Physical Journal: Special Topics, 2021, 230, 941-945. | 1.2 | 4 |
| 63 | The physics of quantum computation. International Journal of Quantum Information, 2014, 12, 1430003. | 0.6 | 3 |
| 64 | Coherent trapping in small quantum networks. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 124024. | 0.9 | 3 |
| 65 | 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 |
| 66 | Ground-state symmetry classification for a non-isolated tunnelling particle. Journal of Physics A, 1996, 29, 2485-2492. | 1.6 | 2 |
| 67 | Decay of correlations in the dissipative two-state system. Europhysics Letters, 1998, 43, 117-122. | 0.7 | 2 |
| 68 | DECOHERENCE DUE TO TELEGRAPH AND 1/F NOISE IN JOSEPHSON QUBITS. , 2005, , . | | 2 |
| 69 | PROTECTED COMPUTATIONAL SUBSPACES OF COUPLED SUPERCONDUCTING QUBITS. International Journal of Quantum Information, 2008, 06, 645-650. | 0.6 | 2 |
| 70 | Purcell effect in a circuit-QED architecture implementation of a universal two-qubit gate. Physica Scripta, 2012, T151, 014048. | 1.2 | 2 |
| 71 | Dynamical decoupling of random telegraph noise in a two-qubit gate. International Journal of Quantum Information, 2014, 12, 1461008. | 0.6 | 2 |
| 72 | High-fidelity two-qubit gates via dynamical decoupling of local at the optimal point. Physical Review A, 2016, 94, . | | |

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|----|--|-----|-----------|
| 73 | Dynamical decoupling of local transverse random telegraph noise in a two-qubit gate. Physica Scripta, 2015, T165, 014037. | 1.2 | 2 |
| 74 | Dynamics of Weyl wave-packets in a noisy environment. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 584-589. | 1.3 | 1 |
| 75 | Quantum Sensing 1/f Noise via Pulsed Control of a Two-Qubit Gate. Proceedings (mdpi), 2019, 12, 29. | 0.2 | 1 |
| 76 | 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 |
| 77 | 1/f Noise in Josephson Qubits. , 2002, , 15-24. | | 0 |
| 78 | Josephson Qubits For Quantum Computation. , 2002, , 265-274. | | 0 |
| 79 | Semiclassical Analysis of 1/fNoise in Josephson Qubits. , 2004, , 237-245. | | 0 |
| 80 | Coupled qubits: effects of transverse slow noise. Physica Scripta, 2009, 80, 025803. | 1.2 | 0 |
| 81 | Detector's quantum backaction effects on a mesoscopic conductor and fluctuationâ€dissipation relation. Fortschritte Der Physik, 2017, 65, 1600059. | 1.5 | 0 |
| 82 | Speedup of Adiabatic Multiqubit State-Transfer by Ultrastrong Coupling of Matter and Radiation. Proceedings (mdpi), 2019, 12, 35. | 0.2 | 0 |
| 83 | Background Charges Induced Stochastic Fluctuations in Josephson Qubits. Journal of the Physical Society of Japan, 2003, 72, 165-166. | 0.7 | 0 |
| 84 | STIMULATED RAMAN ADIABATIC PASSAGE WITH A COOPER PAIR BOX. , 2008, , . | | 0 |
| 85 | CHARACTERIZATION OF ADIABATIC NOISE IN CHARGE-BASED COHERENT NANODEVICES. , 2008, , . | | 0 |
| 86 | Intraenvironmental Correlations in the Ground State of a Nonisolated Two-State Particle. Journal De Physique, I, 1996, 6, 783-791. | 1.2 | 0 |