Amit Vainsencher

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/524559/publications.pdf Version: 2024-02-01

| | | 159358 | 414034 |
|----------|----------------|--------------|----------------|
| 32 | 10,741 | 30 | 32 |
| papers | citations | h-index | g-index |
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| 32 | 32 | 32 | 7742 |
| all docs | docs citations | times ranked | citing authors |
| | | | |

AMIT VAINSENCHER

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Quantum supremacy using a programmable superconducting processor. Nature, 2019, 574, 505-510. | 13.7 | 4,148 |
| 2 | Superconducting quantum circuits at the surface code threshold for fault tolerance. Nature, 2014, 508, 500-503. | 13.7 | 1,270 |
| 3 | State preservation by repetitive error detection in a superconducting quantum circuit. Nature, 2015, 519, 66-69. | 13.7 | 682 |
| 4 | Nanomechanical coupling between microwave and optical photons. Nature Physics, 2013, 9, 712-716. | 6.5 | 485 |
| 5 | Qubit Architecture with High Coherence and Fast Tunable Coupling. Physical Review Letters, 2014, 113, 220502. | 2.9 | 387 |
| 6 | Planar superconducting resonators with internal quality factors above one million. Applied Physics Letters, 2012, 100, . | 1.5 | 341 |
| 7 | Digitized adiabatic quantum computing with a superconducting circuit. Nature, 2016, 534, 222-226. | 13.7 | 339 |
| 8 | A blueprint for demonstrating quantum supremacy with superconducting qubits. Science, 2018, 360, 195-199. | 6.0 | 307 |
| 9 | Chiral ground-state currents of interacting photons in a synthetic magnetic field. Nature Physics, 2017, 13, 146-151. | 6.5 | 292 |
| 10 | Fast Accurate State Measurement with Superconducting Qubits. Physical Review Letters, 2014, 112, 190504. | 2.9 | 273 |
| 11 | Digital quantum simulation of fermionic models with a superconducting circuit. Nature Communications, 2015, 6, 7654. | 5.8 | 258 |
| 12 | Computing prime factors with a Josephson phase qubit quantum processor. Nature Physics, 2012, 8, 719-723. | 6.5 | 238 |
| 13 | Ergodic dynamics and thermalization in an isolated quantum system. Nature Physics, 2016, 12, 1037-1041. | 6.5 | 208 |
| 14 | Observation of topological transitions in interacting quantum circuits. Nature, 2014, 515, 241-244. | 13.7 | 162 |
| 15 | Optimal Quantum Control Using Randomized Benchmarking. Physical Review Letters, 2014, 112, 240504. | 2.9 | 160 |
| 16 | Measuring and Suppressing Quantum State Leakage in a Superconducting Qubit. Physical Review Letters, 2016, 116, 020501. | 2.9 | 137 |
| 17 | Surface loss simulations of superconducting coplanar waveguide resonators. Applied Physics Letters, 2011, 99, . | 1.5 | 130 |
| 18 | Qubit compatible superconducting interconnects. Quantum Science and Technology, 2018, 3, 014005. | 2.6 | 95 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Catching Time-Reversed Microwave Coherent State Photons with 99.4% Absorption Efficiency. Physical Review Letters, 2014, 112, . | 2.9 | 92 |
| 20 | Fabrication and characterization of aluminum airbridges for superconducting microwave circuits. Applied Physics Letters, 2014, 104, . | 1.5 | 89 |
| 21 | Observation of Classical-Quantum Crossover of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>1</mml:mn><mml:mo stretchy="false">/<mml:mi>f</mml:mi> Flux Noise and Its Paramagnetic Temperature Dependence. Physical Review Letters. 2017. 118. 057702.</mml:mo </mml:math | 2.9 | 87 |
| 22 | Characterization and reduction of microfabrication-induced decoherence in superconducting quantum circuits. Applied Physics Letters, 2014, 105, . | 1.5 | 85 |
| 23 | Design and characterization of a lumped element single-ended superconducting microwave parametric amplifier with on-chip flux bias line. Applied Physics Letters, 2013, 103, . | 1.5 | 73 |
| 24 | Diabatic Gates for Frequency-Tunable Superconducting Qubits. Physical Review Letters, 2019, 123, 210501. | 2.9 | 73 |
| 25 | Multiplexed dispersive readout of superconducting phase qubits. Applied Physics Letters, 2012, 101, . | 1.5 | 67 |
| 26 | Qubit Metrology of Ultralow Phase Noise Using Randomized Benchmarking. Physical Review Applied, 2015, 3, . | 1.5 | 66 |
| 27 | Excitation of Superconducting Qubits from Hot Nonequilibrium Quasiparticles. Physical Review Letters, 2013, 110, 150502. | 2.9 | 48 |
| 28 | Preserving entanglement during weak measurement demonstrated with a violation of the Bell–Leggett–Garg inequality. Npj Quantum Information, 2016, 2, . | 2.8 | 41 |
| 29 | A method for building low loss multi-layer wiring for superconducting microwave devices. Applied Physics Letters, 2018, 112, . | 1.5 | 35 |
| 30 | Emulating weak localization using a solid-state quantum circuit. Nature Communications, 2014, 5, 5184. | 5.8 | 30 |
| 31 | Scalable <i>in situ</i> qubit calibration during repetitive error detection. Physical Review A, 2016, 94, . | 1.0 | 30 |
| 32 | High speed flux sampling for tunable superconducting qubits with an embedded cryogenic transducer. Superconductor Science and Technology, 2019, 32, 015012. | 1.8 | 13 |