

Vladimir E Manucharyan

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,772
citations

567281

15
h-index

677142

22
g-index

22
all docs

22
docs citations

22
times ranked

1650
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Arbitrary controlled-phase gate on fluxonium qubits using differential ac Stark shifts. Physical Review Research, 2022, 4, . | 3.6 | 20 |
| 2 | Photon-Instanton Collider Implemented by a Superconducting Circuit. Physical Review Letters, 2021, 126, 137701. | 7.8 | 7 |
| 3 | Inelastic Scattering of a Photon by a Quantum Phase Slip. Physical Review Letters, 2021, 126, 197701. | 7.8 | 11 |
| 4 | Fast Logic with Slow Qubits: Microwave-Activated Controlled-Z Gate on Low-Frequency Fluxoniums. Physical Review X, 2021, 11, . | 8.9 | 28 |
| 5 | Proposal for Entangling Gates on Fluxonium Qubits via a Two-Photon Transition. PRX Quantum, 2021, 2, . | 9.2 | 14 |
| 6 | Local Control of Supercurrent Density in Epitaxial Planar Josephson Junctions. Nano Letters, 2021, 21, 8274-8280. | 9.1 | 16 |
| 7 | Electron shelving of a superconducting artificial atom. Nature Communications, 2021, 12, 6383. | 12.8 | 5 |
| 8 | Superconducting titanium nitride films grown by directional reactive evaporation. Journal of Applied Physics, 2021, 130, . | 2.5 | 1 |
| 9 | The superconducting quasicharge qubit. Nature, 2020, 585, 368-371. | 27.8 | 47 |
| 10 | Multiterminal Josephson Effect. Physical Review X, 2020, 10, . | 8.9 | 50 |
| 11 | Quantum electrodynamics of a superconductor-insulator phase transition. Nature Physics, 2019, 15, 930-934. | 16.7 | 36 |
| 12 | Superstrong coupling in circuit quantum electrodynamics. Npj Quantum Information, 2019, 5, . | 6.7 | 33 |
| 13 | High-Coherence Fluxonium Qubit. Physical Review X, 2019, 9, . | 8.9 | 110 |
| 14 | Demonstration of Protection of a Superconducting Qubit from Energy Decay. Physical Review Letters, 2018, 120, 150503. | 7.8 | 79 |
| 15 | Transport properties of near surface InAs two-dimensional heterostructures. Applied Physics Letters, 2018, 113, . | 3.3 | 32 |
| 16 | Microwave-activated controlled- Z gate for fixed-frequency fluxonium qubits. Physical Review A, 2018, 98, . | 2.5 | 23 |
| 17 | Controlled-Z gate for transmon qubits coupled by semiconductor junctions. Physical Review B, 2018, 97, . | 3.2 | 13 |
| 18 | Probing Johnson noise and ballistic transport in normal metals with a single-spin qubit. Science, 2015, 347, 1129-1132. | 12.6 | 130 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Evidence for coherent quantum phase slips across a Josephson junction array. Physical Review B, 2012, 85, . | 3.2 | 103 |
| 20 | Phase-preserving amplification near the quantum limit with a Josephson ring modulator. Nature, 2010, 465, 64-68. | 27.8 | 357 |
| 21 | Analog information processing at the quantum limit with a Josephson ring modulator. Nature Physics, 2010, 6, 296-302. | 16.7 | 174 |
| 22 | Fluxonium: Single Cooper-Pair Circuit Free of Charge Offsets. Science, 2009, 326, 113-116. | 12.6 | 483 |