

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	Fluxonium: Single Cooper-Pair Circuit Free of Charge Offsets. <i>Science</i> , 2009, 326, 113-116.	12.6	483
2	Phase-preserving amplification near the quantum limit with a Josephson ring modulator. <i>Nature</i> , 2010, 465, 64-68.	27.8	357
3	Analog information processing at the quantum limit with a Josephson ring modulator. <i>Nature Physics</i> , 2010, 6, 296-302.	16.7	174
4	Probing Johnson noise and ballistic transport in normal metals with a single-spin qubit. <i>Science</i> , 2015, 347, 1129-1132.	12.6	130
5	High-Coherence Fluxonium Qubit. <i>Physical Review X</i> , 2019, 9, .	8.9	110
6	Evidence for coherent quantum phase slips across a Josephson junction array. <i>Physical Review B</i> , 2012, 85, .	3.2	103
7	Demonstration of Protection of a Superconducting Qubit from Energy Decay. <i>Physical Review Letters</i> , 2018, 120, 150503.	7.8	79
8	Multiterminal Josephson Effect. <i>Physical Review X</i> , 2020, 10, .	8.9	50
9	The superconducting quasicharge qubit. <i>Nature</i> , 2020, 585, 368-371.	27.8	47
10	Quantum electrodynamics of a superconductor-insulator phase transition. <i>Nature Physics</i> , 2019, 15, 930-934.	16.7	36
11	Superstrong coupling in circuit quantum electrodynamics. <i>Npj Quantum Information</i> , 2019, 5, .	6.7	33
12	Transport properties of near surface InAs two-dimensional heterostructures. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	32
13	Fast Logic with Slow Qubits: Microwave-Activated Controlled-Z Gate on Low-Frequency Fluxoniums. <i>Physical Review X</i> , 2021, 11, .	8.9	28
14	Microwave-activated controlled- Z gate for fixed-frequency fluxonium qubits. <i>Physical Review A</i> , 2018, 98, .	2.5	23
15	Arbitrary controlled-phase gate on fluxonium qubits using differential ac Stark shifts. <i>Physical Review Research</i> , 2022, 4, .	3.6	20
16	Local Control of Supercurrent Density in Epitaxial Planar Josephson Junctions. <i>Nano Letters</i> , 2021, 21, 8274-8280.	9.1	16
17	Proposal for Entangling Gates on Fluxonium Qubits via a Two-Photon Transition. <i>PRX Quantum</i> , 2021, 2, .	9.2	14
18	Controlled-Z gate for transmon qubits coupled by semiconductor junctions. <i>Physical Review B</i> , 2018, 97, .	3.2	13

#	ARTICLE	IF	CITATIONS
19	Inelastic Scattering of a Photon by a Quantum Phase Slip. Physical Review Letters, 2021, 126, 197701.	7.8	11
20	Photon-Instanton Collider Implemented by a Superconducting Circuit. Physical Review Letters, 2021, 126, 137701.	7.8	7
21	Electron shelving of a superconducting artificial atom. Nature Communications, 2021, 12, 6383.	12.8	5
22	Superconducting titanium nitride films grown by directional reactive evaporation. Journal of Applied Physics, 2021, 130, .	2.5	1