Arkady Fedorov

List of Publications by Year
in descending order

41 papers	1,969 citations	430874 18 h-index	361022 35 g-index
41 all docs	41 docs citations	41 times ranked	1911 citing authors

#	Article	IF	Citations
1	Ternary metal oxide substrates for superconducting circuits. Materials for Quantum Technology, 2022, 2, 025004.	3.1	3
2	Near-field terahertz nanoscopy of coplanar microwave resonators. Applied Physics Letters, 2021, 119, .	3.3	10
3	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="double-struck">Z</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> lattice gauge theories and Kitaev's toric code: A scheme for analog quantum simulation. Physical Review B, 2021, 104, .	3.2	23
4	Neural networks for on-the-fly single-shot state classification. Applied Physics Letters, 2021, 119, 114003.	3.3	9
5	Approximations in Transmon Simulation. Physical Review Applied, 2021, 16, .	3.8	4
6	Operating a passive on-chip superconducting circulator: Device control and quasiparticle effects. Physical Review Research, 2021, 3, .	3.6	4
7	Measuring Effective Temperatures of Qubits Using Correlations. Physical Review Letters, 2020, 124, 240501.	7.8	10
8	Probabilistic motional averaging. European Physical Journal B, 2020, 93, 1.	1.5	4
9	Quantum Rifling: Protecting a Qubit from Measurement Back Action. Physical Review Letters, 2020, 124, 070401.	7.8	12
10	InÂSitu Characterization of Qubit Control Lines: A Qubit as a Vector Network Analyzer. Physical Review Letters, 2019, 123, 150501.	7.8	20
11	Nonreciprocity Realized with Quantum Nonlinearity. Physical Review Letters, 2018, 121, 123601.	7.8	71
12	Realization of a Quantum Random Generator Certified with the Kochen-Specker Theorem. Physical Review Letters, 2017, 119, 240501.	7.8	16
13	Nonreciprocal atomic scattering: A saturable, quantum Yagi-Uda antenna. Physical Review A, 2017, 96, .	2.5	23
14	Realization of a Binary-Outcome Projection Measurement of a Three-Level Superconducting Quantum System. Physical Review Applied, 2016, 6, .	3.8	13
15	Quartz-superconductor quantum electromechanical system. Physical Review B, 2016, 93, .	3.2	9
16	Contextuality without nonlocality in a superconducting quantum system. Nature Communications, 2016, 7, 12930.	12.8	38
17	The Lagrangian approach to a Josephson traveling-wave parametric amplifier. , 2016, , .		4
18	3D microwave cavity with magnetic flux control and enhanced quality factor. EPJ Quantum Technology, 2016, 3, .	6.3	12

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19	Higher-order nonlinear effects in a Josephson parametric amplifier. Physical Review B, 2015, 92, .	3.2	19
20	Exploring the effect of noise on the Berry phase. Physical Review A, 2013, 87, .	2.5	81
21	Deterministic quantum teleportation with feed-forward in a solid state system. Nature, 2013, 500, 319-322.	27.8	201
22	Input-output theory for waveguide QED with an ensemble of inhomogeneous atoms. Physical Review A, 2013, 88, .	2.5	196
23	Photon-Mediated Interactions Between Distant Artificial Atoms. Science, 2013, 342, 1494-1496.	12.6	409
24	Experimental MonteÂCarlo Quantum Process Certification. Physical Review Letters, 2012, 108, 260506.	7.8	13
25	Implementation of a Toffoli gate with superconducting circuits. Nature, 2012, 481, 170-172.	27.8	296
26	Tuned Transition from Quantum to Classical for Macroscopic Quantum States. Physical Review Letters, 2011, 106, 170404.	7.8	23
27	Single-Qubit Lasing and Cooling at the Rabi Frequency. Physical Review Letters, 2008, 100, 037003.	7.8	100
28	Sisyphus cooling and amplification by a superconducting qubit. Nature Physics, 2008, 4, 612-616.	16.7	105
29	Decoherence and Relaxation in Driven Circuit QED Systems. , 2008, , .		1
30	Dissipation in circuit quantum electrodynamics: lasing and cooling of a low-frequency oscillator. New Journal of Physics, 2008, 10, 095018.	2.9	43
31	SPIN-PHOTOVOLTAIC EFFECT IN QUANTUM WIRES. , 2008, , .		0
32	Design of a ballistic fluxon qubit readout. Superconductor Science and Technology, 2007, 20, S450-S454.	3.5	32
33	Reading out the state of a flux qubit by Josephson transmission line solitons. Physical Review B, 2007, 75, .	3.2	44
34	Robustness of multiqubit entanglement. , 2006, , .		1
35	Collective decoherence of nuclear spin clusters. Journal of Physics Condensed Matter, 2006, 18, 3217-3228.	1.8	18
36	Study of Temperature Dependence of Electronâ€“Phonon Relaxation and Dephasing in Semiconductor Double-Dot Nanostructures. IEEE Nanotechnology Magazine, 2005, 4, 65-70.	2.0	13

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37	Spin-photovoltaic effect in quantum wires due to intersubband transitions. Physical Review B, 2005, 72, .	3.2	21
38	Additivity of decoherence measures for multiqubit quantum systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 328, 87-93.	2.1	23
39	Evaluation of Decoherence for Quantum Control and Computing. Journal of Computational and Theoretical Nanoscience, 2004, 1, 132-143.	0.4	16
40	Measures of decoherence. , 2003, , .		29
41	Decoherence of localized electrons in semiconductors due to acoustic phonons. , 2003, 5105, 265.		0