

Arkady Fedorov

List of Publications by Year in descending order

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Version: 2024-02-01

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	Photon-Mediated Interactions Between Distant Artificial Atoms. <i>Science</i> , 2013, 342, 1494-1496.	12.6	409
2	Implementation of a Toffoli gate with superconducting circuits. <i>Nature</i> , 2012, 481, 170-172.	27.8	296
3	Deterministic quantum teleportation with feed-forward in a solid state system. <i>Nature</i> , 2013, 500, 319-322.	27.8	201
4	Input-output theory for waveguide QED with an ensemble of inhomogeneous atoms. <i>Physical Review A</i> , 2013, 88, .	2.5	196
5	Sisyphus cooling and amplification by a superconducting qubit. <i>Nature Physics</i> , 2008, 4, 612-616.	16.7	105
6	Single-Qubit Lasing and Cooling at the Rabi Frequency. <i>Physical Review Letters</i> , 2008, 100, 037003.	7.8	100
7	Exploring the effect of noise on the Berry phase. <i>Physical Review A</i> , 2013, 87, .	2.5	81
8	Nonreciprocity Realized with Quantum Nonlinearity. <i>Physical Review Letters</i> , 2018, 121, 123601.	7.8	71
9	Reading out the state of a flux qubit by Josephson transmission line solitons. <i>Physical Review B</i> , 2007, 75, .	3.2	44
10	Dissipation in circuit quantum electrodynamics: lasing and cooling of a low-frequency oscillator. <i>New Journal of Physics</i> , 2008, 10, 095018.	2.9	43
11	Contextuality without nonlocality in a superconducting quantum system. <i>Nature Communications</i> , 2016, 7, 12930.	12.8	38
12	Design of a ballistic fluxon qubit readout. <i>Superconductor Science and Technology</i> , 2007, 20, S450-S454.	3.5	32
13	Measures of decoherence. , 2003, , .		29
14	Additivity of decoherence measures for multiqubit quantum systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004, 328, 87-93.	2.1	23
15	Tuned Transition from Quantum to Classical for Macroscopic Quantum States. <i>Physical Review Letters</i> , 2011, 106, 170404.	7.8	23
16	Nonreciprocal atomic scattering: A saturable, quantum Yagi-Uda antenna. <i>Physical Review A</i> , 2017, 96, .	2.5	23
17	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi mathvariant="double-struck"} \rangle Z \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ lattice gauge theories and Kitaev's toric code: A scheme for analog quantum simulation. <i>Physical Review B</i> , 2021, 104, .	3.2	23
18	Spin-photovoltaic effect in quantum wires due to intersubband transitions. <i>Physical Review B</i> , 2005, 72, .	3.2	21

#	ARTICLE	IF	CITATIONS
19	<i>In Situ</i> Characterization of Qubit Control Lines: A Qubit as a Vector Network Analyzer. <i>Physical Review Letters</i> , 2019, 123, 150501.	7.8	20
20	Higher-order nonlinear effects in a Josephson parametric amplifier. <i>Physical Review B</i> , 2015, 92, .	3.2	19
21	Collective decoherence of nuclear spin clusters. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 3217-3228.	1.8	18
22	Evaluation of Decoherence for Quantum Control and Computing. <i>Journal of Computational and Theoretical Nanoscience</i> , 2004, 1, 132-143.	0.4	16
23	Realization of a Quantum Random Generator Certified with the Kochen-Specker Theorem. <i>Physical Review Letters</i> , 2017, 119, 240501.	7.8	16
24	Study of Temperature Dependence of Electron-Phonon Relaxation and Dephasing in Semiconductor Double-Dot Nanostructures. <i>IEEE Nanotechnology Magazine</i> , 2005, 4, 65-70.	2.0	13
25	Experimental Monte Carlo Quantum Process Certification. <i>Physical Review Letters</i> , 2012, 108, 260506.	7.8	13
26	Realization of a Binary-Outcome Projection Measurement of a Three-Level Superconducting Quantum System. <i>Physical Review Applied</i> , 2016, 6, .	3.8	13
27	3D microwave cavity with magnetic flux control and enhanced quality factor. <i>EPJ Quantum Technology</i> , 2016, 3, .	6.3	12
28	Quantum Rifling: Protecting a Qubit from Measurement Back Action. <i>Physical Review Letters</i> , 2020, 124, 070401.	7.8	12
29	Measuring Effective Temperatures of Qubits Using Correlations. <i>Physical Review Letters</i> , 2020, 124, 240501.	7.8	10
30	Near-field terahertz nanoscopy of coplanar microwave resonators. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	10
31	Quartz-superconductor quantum electromechanical system. <i>Physical Review B</i> , 2016, 93, .	3.2	9
32	Neural networks for on-the-fly single-shot state classification. <i>Applied Physics Letters</i> , 2021, 119, 114003.	3.3	9
33	The Lagrangian approach to a Josephson traveling-wave parametric amplifier. , 2016, , .		4
34	Probabilistic motional averaging. <i>European Physical Journal B</i> , 2020, 93, 1.	1.5	4
35	Approximations in Transmon Simulation. <i>Physical Review Applied</i> , 2021, 16, .	3.8	4
36	Operating a passive on-chip superconducting circulator: Device control and quasiparticle effects. <i>Physical Review Research</i> , 2021, 3, .	3.6	4

#	ARTICLE	IF	CITATIONS
37	Ternary metal oxide substrates for superconducting circuits. Materials for Quantum Technology, 2022, 2, 025004.	3.1	3
38	Robustness of multiqubit entanglement. , 2006, , .		1
39	Decoherence and Relaxation in Driven Circuit QED Systems. , 2008, , .		1
40	Decoherence of localized electrons in semiconductors due to acoustic phonons. , 2003, 5105, 265.		0
41	SPIN-PHOTOVOLTAIC EFFECT IN QUANTUM WIRES. , 2008, , .		0