Lev S Bishop

List of Publications by Year
in descending order

24 papers	3,460 citations	394421 19 h-index	642732 23 g-index
24 all docs	24 docs citations	24 times ranked	3008 citing authors

#	Article	IF	Citations
1	Demonstration of two-qubit algorithms with a superconducting quantum processor. Nature, 2009, 460, 240-244.	27.8	923
2	Observation of High Coherence in Josephson Junction Qubits Measured in a Three-Dimensional Circuit QED Architecture. Physical Review Letters, 2011, 107, 240501.	7.8	830
3	Quantum non-demolition detection of single microwave photons in a circuit. Nature Physics, 2010, 6, 663-667.	16.7	233
4	Nonlinear response of the vacuum Rabi resonance. Nature Physics, 2009, 5, 105-109.	16.7	226
5	Randomized Benchmarking and Process Tomography for Gate Errors in a Solid-State Qubit. Physical Review Letters, 2009, 102, 090502.	7.8	179
6	Composite pulses for robust universal control of singlet–triplet qubits. Nature Communications, 2012, 3, 997.	12.8	140
7	Characterizing errors on qubit operations via iterative randomized benchmarking. Physical Review A, 2016, 93, .	2.5	107
8	Response of the Strongly Driven Jaynes-Cummings Oscillator. Physical Review Letters, 2010, 105, 100505.	7.8	96
9	Detecting highly entangled states with a joint qubit readout. Physical Review A, 2010, 81, .	2.5	82
10	Noise-Resistant Control for a Spin Qubit Array. Physical Review Letters, 2013, 110, 140502.	7.8	80
11	Measurements of Quasiparticle Tunneling Dynamics in a Band-Gap-Engineered Transmon Qubit. Physical Review Letters, 2012, 108, 230509.	7.8	78
12	Robust quantum gates for singlet-triplet spin qubits using composite pulses. Physical Review A, 2014, 89, .	2.5	77
13	Quantum-To-Classical Transition in Cavity Quantum Electrodynamics. Physical Review Letters, 2010, 105, 163601.	7.8	65
14	Scalable randomised benchmarking of non-Clifford gates. Npj Quantum Information, 2016, 2, .	6.7	65
15	Proposal for generating and detecting multi-qubit GHZ states in circuit QED. New Journal of Physics, 2009, 11, 073040.	2.9	61
16	Rapid Driven Reset of a Qubit Readout Resonator. Physical Review Applied, 2016, 5, .	3.8	59
17	High-Contrast Qubit Interactions Using Multimode Cavity QED. Physical Review Letters, 2015, 114, 080501.	7.8	55
18	Cavity QED in a molecular ion trap. Physical Review A, 2011, 83, .	2.5	46

#	Article	IF	Citations
19	Observation of Autler–Townes effect in a dispersively dressed Jaynes–Cummings system. New Journal of Physics, 2013, 15, 125007.	2.9	25
20	Protocol for high-fidelity readout in the photon-blockade regime of circuit QED. Physical Review A, 2010, 82, .	2.5	16
21	Nonlinear microwave photon occupancy of a driven resonator strongly coupled to a transmon qubit. Physical Review A, 2015, 92, .	2.5	13
22	Publisher's Note: Randomized Benchmarking and Process Tomography for Gate Errors in a Solid-State Qubit [Phys. Rev. Lett.102, 090502 (2009)]. Physical Review Letters, 2009, 102, .	7.8	2
23	Hardware-efficient random circuits to classify noise in a multiqubit system. Physical Review A, 2021, 104, .	2.5	2
24	Nonlinear oscillators and high fidelity qubit state measurement in circuit quantum electrodynamics. , 2012, , 198-219.		0