Shyam Shankar

List of Publications by Citations

44 papers	2,685 citations	26 h-index	44 g-index
44 ext. papers	3,477 ext. citations	12.3 avg, IF	4.91 L-index

#	Paper	IF	Citations
44	Solid-state quantum memory using the 31P nuclear spin. *Nature*, **2008**, 455, 1085-1088	50.4	295
43	Quantum engineering. Confining the state of light to a quantum manifold by engineered two-photon loss. *Science*, **2015**, 347, 853-7	33.3	223
42	Autonomously stabilized entanglement between two superconducting quantum bits. *Nature*, **2013**, 504, 419-22	50.4	210
41	Quantum back-action of an individual variable-strength measurement. *Science*, **2013**, 339, 178-81	33.3	178
40	Black-box superconducting circuit quantization. *Physical Review Letters*, **2012**, 108, 240502	7.4	166
39	Tracking photon jumps with repeated quantum non-demolition parity measurements. *Nature*, **2014**, 511, 444-8	50.4	151
38	Demonstrating a driven reset protocol for a superconducting qubit. *Physical Review Letters*, **2013**, 110, 120501	7.4	118
37	Reconfigurable Josephson Circulator/Directional Amplifier. *Physical Review X*, **2015**, 5,	9.1	117
36	To catch and reverse a quantum jump mid-flight. *Nature*, **2019**, 570, 200-204	50.4	92
35	Quantum error correction of a qubit encoded in grid states of an oscillator. *Nature*, **2020**, 584, 368-372	50.4	86
34	Non-Poissonian quantum jumps of a fluxonium qubit due to quasiparticle excitations. *Physical Review Letters*, **2014**, 113, 247001	7.4	71
33	Stabilizing a Bell state of two superconducting qubits by dissipation engineering. *Physical Review A*, **2013**, 88,	2.6	66
32	Improving the quality factor of microwave compact resonators by optimizing their geometrical parameters. *Applied Physics Letters*, **2012**, 100, 192601	3.4	65
31	Hot Nonequilibrium Quasiparticles in Transmon Qubits. *Physical Review Letters*, **2018**, 121, 157701	7.4	62
30	Deterministic Remote Entanglement of Superconducting Circuits through Microwave Two-Photon Transitions. *Physical Review Letters*, **2018**, 120, 200501	7.4	62
29	Josephson directional amplifier for quantum measurement of superconducting circuits. *Physical Review Letters*, **2014**, 112, 167701	7.4	61
28	Robust Concurrent Remote Entanglement Between Two Superconducting Qubits. *Physical Review X*, **2016**, 6,	9.1	61

27	3-wave mixing Josephson dipole element. *Applied Physics Letters*, **2017**, 110, 222603	3.4	58
26	Stabilization and operation of a Kerr-cat qubit. *Nature*, **2020**, 584, 205-209	50.4	52
25	Optimizing the Nonlinearity and Dissipation of a SNAIL Parametric Amplifier for Dynamic Range. *Physical Review Applied*, **2018**, 10,	4.3	44
24	Cavity Attenuators for Superconducting Qubits. *Physical Review Applied*, **2019**, 11,	4.3	43
23	Comparing and Combining Measurement-Based and Driven-Dissipative Entanglement Stabilization*. *Physical Review X*, **2016**, 6,	9.1	40
22	Coherent Oscillations inside a Quantum Manifold Stabilized by Dissipation. *Physical Review X*, **2018**, 8,	9.1	39
21	Gated Conditional Displacement Readout of Superconducting Qubits. *Physical Review Letters*, **2019**, 122, 080502	7.4	37
20	Direct Dispersive Monitoring of Charge Parity in Offset-Charge-Sensitive Transmons. *Physical Review Applied*, **2019**, 12,	4.3	33
19	Spin relaxation and coherence times for electrons at the Si/SiO2 interface. *Physical Review B*, **2010**, 82,	3.3	29
18	Proposal for Heralded Generation and Detection of Entangled Microwave-Optical-Photon Pairs. *Physical Review Letters*, **2020**, 124, 010511	7.4	25
17	Kerr-Free Three-Wave Mixing in Superconducting Quantum Circuits. *Physical Review Applied*, **2019**, 11,	4.3	24
16	Electron paramagnetic resonance of boron acceptors in isotopically purified silicon. *Physical Review B*, **2010**, 81,	3.3	24
15	Continuous Quantum Nondemolition Measurement of the Transverse Component of a Qubit. *Physical Review Letters*, **2016**, 117, 133601	7.4	23
14	Signal and charge transfer efficiency of few electrons clocked on microscopic superfluid helium channels. *Applied Physics Letters*, **2008**, 92, 082104	3.4	22
13	Josephson Array-Mode Parametric Amplifier. *Physical Review Applied*, **2020**, 13,	4.3	17
12	Driving Forbidden Transitions in the Fluxonium Artificial Atom. *Physical Review Applied*, **2018**, 9,	4.3	14
11	Probing band-tail states in silicon metal-oxide-semiconductor heterostructures with electron spin resonance. *Applied Physics Letters*, **2012**, 100, 023503	3.4	13
10	Wireless Josephson amplifier. *Applied Physics Letters*, **2014**, 104, 232605	3.4	10

9	Spin resonance of 2D electrons in a large-area silicon MOSFET. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 40, 1659-1661	3	9
8	Generating higher-order quantum dissipation from lower-order parametric processes. *Quantum Science and Technology*, **2017**, 2, 024005	5.5	8
7	Free-standing silicon shadow masks for transmon qubit fabrication. *AIP Advances*, **2020**, 10, 065120	1.5	7
6	Remote entanglement stabilization and concentration by quantum reservoir engineering. *Physical Review A*, **2018**, 98,	2.6	7
5	ESR measurements of phosphorus dimers in isotopically enriched Si28 silicon. *Physical Review B*, **2015**, 91,	3.3	7
4	Experimental Implementation of a Raman-Assisted Eight-Wave Mixing Process. *Physical Review Applied*, **2019**, 12,	4.3	6
3	A Low Power Photoemission Source for Electrons on Liquid Helium. *Journal of Low Temperature Physics*, **2010**, 161, 410-416	1.3	4
2	On catching and reversing a quantum jump mid-flight **2019**,		3
1	Quantum Microwave Radiometry with a Superconducting Qubit. *Physical Review Letters*, **2021**, 126, 180501	7.4	3