Shyam Shankar

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3023506/publications.pdf

Version: 2024-02-01

44	4,123	159573	254170
papers	citations	30	43
		h-index	g-index

44	44	44	3120
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Confining the state of light to a quantum manifold by engineered two-photon loss. Science, 2015, 347, 853-857.	12.6	357
2	Solid-state quantum memory using the 31P nuclear spin. Nature, 2008, 455, 1085-1088.	27.8	351
3	Autonomously stabilized entanglement between two superconducting quantum bits. Nature, 2013, 504, 419-422.	27.8	267
4	Quantum error correction of a qubit encoded in grid states of an oscillator. Nature, 2020, 584, 368-372.	27.8	232
5	Black-Box Superconducting Circuit Quantization. Physical Review Letters, 2012, 108, 240502.	7.8	226
6	Stabilization and operation of a Kerr-cat qubit. Nature, 2020, 584, 205-209.	27.8	218
7	Quantum Back-Action of an Individual Variable-Strength Measurement. Science, 2013, 339, 178-181.	12.6	215
8	Tracking photon jumps with repeated quantum non-demolition parity measurements. Nature, 2014, 511, 444-448.	27.8	195
9	To catch and reverse a quantum jump mid-flight. Nature, 2019, 570, 200-204.	27.8	185
10	Reconfigurable Josephson Circulator/Directional Amplifier. Physical Review X, 2015, 5, .	8.9	167
11	Demonstrating a Driven Reset Protocol for a Superconducting Qubit. Physical Review Letters, 2013, 110, 120501.	7.8	147
12	3-wave mixing Josephson dipole element. Applied Physics Letters, 2017, 110, .	3.3	121
13	Hot Nonequilibrium Quasiparticles in Transmon Qubits. Physical Review Letters, 2018, 121, 157701.	7.8	114
14	Deterministic Remote Entanglement of Superconducting Circuits through Microwave Two-Photon Transitions. Physical Review Letters, 2018, 120, 200501.	7.8	105
15	Non-Poissonian Quantum Jumps of a Fluxonium Qubit due to Quasiparticle Excitations. Physical Review Letters, 2014, 113, 247001.	7.8	98
16	Optimizing the Nonlinearity and Dissipation of a SNAIL Parametric Amplifier for Dynamic Range. Physical Review Applied, 2018, 10, .	3.8	85
17	Stabilizing a Bell state of two superconducting qubits by dissipation engineering. Physical Review A, 2013, 88, .	2.5	84
18	Robust Concurrent Remote Entanglement Between Two Superconducting Qubits. Physical Review X, 2016, 6, .	8.9	82

#	Article	IF	Citations
19	Improving the quality factor of microwave compact resonators by optimizing their geometrical parameters. Applied Physics Letters, 2012, 100, .	3.3	78
20	Josephson Directional Amplifier for Quantum Measurement of Superconducting Circuits. Physical Review Letters, 2014, 112, 167701.	7.8	78
21	Coherent Oscillations inside a Quantum Manifold Stabilized by Dissipation. Physical Review X, 2018, 8, .	8.9	73
22	Gated Conditional Displacement Readout of Superconducting Qubits. Physical Review Letters, 2019, 122, 080502.	7.8	73
23	Direct Dispersive Monitoring of Charge Parity in Offset-Charge-Sensitive Transmons. Physical Review Applied, 2019, 12, .	3.8	66
24	Cavity Attenuators for Superconducting Qubits. Physical Review Applied, 2019, 11, .	3.8	62
25	Kerr-Free Three-Wave Mixing in Superconducting Quantum Circuits. Physical Review Applied, 2019, 11, .	3.8	57
26	Proposal for Heralded Generation and Detection of Entangled Microwaveâ€“Optical-Photon Pairs. Physical Review Letters, 2020, 124, 010511.	7.8	57
27	Comparing and Combining Measurement-Based and Driven-Dissipative Entanglement Stabilization. Physical Review X, 2016, 6, .	8.9	47
28	Continuous Quantum Nondemolition Measurement of the Transverse Component of a Qubit. Physical Review Letters, 2016, 117, 133601.	7.8	35
29	Spin relaxation and coherence times for electrons at the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>Si</mml:mtext><mml:mo>/</mml:mo><mml:msub><mml:mrow><mml:mtext>SiO</mml:mtext></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review B, 2010, 82, .	3.2	34
30	Josephson Array-Mode Parametric Amplifier. Physical Review Applied, 2020, 13, .	3.8	31
31	Signal and charge transfer efficiency of few electrons clocked on microscopic superfluid helium channels. Applied Physics Letters, 2008, 92, .	3.3	25
32	Electron paramagnetic resonance of boron acceptors in isotopically purified silicon. Physical Review B, 2010, 81, .	3.2	24
33	Driving Forbidden Transitions in the Fluxonium Artificial Atom. Physical Review Applied, 2018, 9, .	3.8	19
34	Probing band-tail states in silicon metal-oxide-semiconductor heterostructures with electron spin resonance. Applied Physics Letters, 2012, 100, .	3.3	14
35	Generating higher-order quantum dissipation from lower-order parametric processes. Quantum Science and Technology, 2017, 2, 024005.	5.8	14
36	Free-standing silicon shadow masks for transmon qubit fabrication. AIP Advances, 2020, 10, .	1.3	14

#	Article	IF	Citations
37	Quantum Microwave Radiometry with a Superconducting Qubit. Physical Review Letters, 2021, 126, 180501.	7.8	13
38	Remote entanglement stabilization and concentration by quantum reservoir engineering. Physical Review A, 2018, 98, .	2.5	12
39	Wireless Josephson amplifier. Applied Physics Letters, 2014, 104, .	3.3	11
40	Experimental Implementation of a Raman-Assisted Eight-Wave Mixing Process. Physical Review Applied, 2019, 12, .	3.8	11
41	Spin resonance of 2D electrons in a large-area silicon MOSFET. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1659-1661.	2.7	10
42	ESR measurements of phosphorus dimers in isotopically enrichedSi28silicon. Physical Review B, 2015, 91, .	3.2	7
43	A Low Power Photoemission Source for Electrons onÂLiquid Helium. Journal of Low Temperature Physics, 2010, 161, 410-416.	1.4	5
44	On catching and reversing a quantum jump mid-flight. , 2019, , .		4