Shiro Saito

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/10728988/publications.pdf Version: 2024-02-01



#	Article	lF	CITATIONS
1	Control of the transition frequency of a superconducting flux qubit by longitudinal coupling to the photon number degree of freedom in a resonator. Physical Review B, 2020, 102, .	3.2	2
2	Driven-state relaxation of a coupled qubit-defect system in spin-locking measurements. Physical Review B, 2020, 102, .	3.2	5
3	Architecture to achieve nuclear magnetic resonance spectroscopy with a superconducting flux qubit. Physical Review A, 2020, 101, .	2.5	4
4	Electron spin resonance with up to 20 spin sensitivity measured using a superconducting flux qubit. Applied Physics Letters, 2020, 116, .	3.3	16
5	Projecting an ultra-strongly-coupled system in a non-energy-eigenbasis with a driven nonlinear resonator. Scientific Reports, 2020, 10, 1751.	3.3	3
6	Bandwidth analysis of AC magnetic field sensing based on electronic spin double-resonance of nitrogen-vacancy centers in diamond. Japanese Journal of Applied Physics, 2019, 58, 100901.	1.5	13
7	Demonstration of vector magnetic field sensing by simultaneous control of nitrogen-vacancy centers in diamond using multi-frequency microwave pulses. Applied Physics Letters, 2019, 114, .	3.3	20
8	Electron paramagnetic resonance spectroscopy using a single artificial atom. Communications Physics, 2019, 2, .	5.3	24
9	A long-lived capacitively shunted flux qubit embedded in a 3D cavity. Applied Physics Letters, 2019, 115, .	3.3	28
10	Phonon-bottlenecked spin relaxation of Er ³⁺ :Y ₂ SiO ₅ at sub-kelvin temperatures. Applied Physics Express, 2018, 11, 043002.	2.4	12
11	Optimization of Temperature Sensitivity Using the Optically Detected Magnetic-Resonance Spectrum of a Nitrogen-Vacancy Center Ensemble. Physical Review Applied, 2018, 10, .	3.8	40
12	AC magnetic field sensing using continuous-wave optically detected magnetic resonance of nitrogen-vacancy centers in diamond. Applied Physics Letters, 2018, 113, .	3.3	24
13	Electron paramagnetic resonance spectroscopy of Er3+:Y2SiO5 using a Josephson bifurcation amplifier: Observation of hyperfine and quadrupole structures. Physical Review Materials, 2018, 2, .	2.4	14
14	Vector-magnetic-field sensing via multifrequency control of nitrogen-vacancy centers in diamond. Physical Review A, 2017, 96, .	2.5	25
15	Projective measurement of energy on an ensemble of qubits with unknown frequencies. Physical Review A, 2017, 95, .	2.5	7
16	Superconducting qubit–oscillator circuit beyond the ultrastrong-coupling regime. Nature Physics, 2017, 13, 44-47.	16.7	462
17	Electron paramagnetic resonance spectroscopy using a direct current-SQUID magnetometer directly coupled to an electron spin ensemble. Applied Physics Letters, 2016, 108, 052601.	3.3	21
18	Superradiance with an ensemble of superconducting flux qubits. Physical Review B, 2016, 94, .	3.2	34

Shiro Saito

#	Article	IF	CITATIONS
19	Observation of Collective Coupling between an Engineered Ensemble of Macroscopic Artificial Atoms and a Superconducting Resonator. Physical Review Letters, 2016, 117, 210503.	7.8	62
20	A strict experimental test of macroscopic realism in a superconducting flux qubit. Nature Communications, 2016, 7, 13253.	12.8	105
21	Characterization and Control of Measurement-Induced Dephasing on Superconducting Flux Qubit with a Josephson Bifurcation Amplifier. Journal of the Physical Society of Japan, 2016, 85, 104801.	1.6	2
22	Superconductor-Diamond Hybrid Quantum System. Lecture Notes in Physics, 2016, , 515-538.	0.7	0
23	Proposed Robust Entanglement-Based Magnetic Field Sensor Beyond the Standard Quantum Limit. Physical Review Letters, 2015, 115, 170801.	7.8	44
24	Spin Amplification in an Inhomogeneous System. Journal of the Physical Society of Japan, 2015, 84, 103001.	1.6	1
25	Self-aligned gate-all-around InAs/InP core–shell nanowire field-effect transistors. Japanese Journal of Applied Physics, 2015, 54, 04DN04.	1.5	5
26	Improving the lifetime of the nitrogen-vacancy-center ensemble coupled with a superconducting flux qubit by applying magnetic fields. Physical Review A, 2015, 91, .	2.5	24
27	Improving the Coherence Time of a Quantum System via a Coupling to a Short-Lived System. Physical Review Letters, 2015, 114, 120501.	7.8	23
28	Hybridization: When two wrongs make a right. , 2015, , .		0
29	Observation of dark states in a superconductor diamond quantum hybrid system. Nature Communications, 2014, 5, 3424.	12.8	44
30	Towards Realizing a Quantum Memory for a Superconducting Qubit: Storage and Retrieval of Quantum States. Physical Review Letters, 2013, 111, 107008.	7.8	97
31	Encapsulated gate-all-around InAs nanowire field-effect transistors. Applied Physics Letters, 2013, 103, .	3.3	18
32	Hybridization of superconducting flux qubits and diamond ensembles: a route to local gates for quantum repeaters. Proceedings of SPIE, 2013, , .	0.8	0
33	Hybridization of superconducting flux qubits and diamond ensembles. , 2013, , .		0
34	Coherent coupling of a superconducting flux qubit to an electron spin ensemble in diamond. Nature, 2011, 478, 221-224.	27.8	387
35	Coherent operation of a gap-tunable flux qubit. Applied Physics Letters, 2010, 97, .	3.3	62
36	Quantum Time Evolution in a Qubit Readout Process with a Josephson Bifurcation Amplifier. Physical Review Letters, 2009, 102, 257003	7.8	21

Shiro Saito

#	Article	IF	CITATIONS
37	Determination of the capacitance of nm scale Josephson junctions. Journal of Applied Physics, 2004, 95, 2607-2613.	2.5	12
38	Observation of Qubit State with a dc-SQUID and Dissipation Effect in the SQUID. Physica Scripta, 2002, T102, 95.	2.5	10
39	Readout of the qubit state with a dc-SQUID. Superlattices and Microstructures, 2002, 32, 221-229.	3.1	2