Hiraku Toida

List of Publications by Year
in descending order

12	279	1040056 9	1125743 13
papers	citations	h-index	g-index

13	13	13	296
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A strict experimental test of macroscopic realism in a superconducting flux qubit. Nature Communications, 2016, 7, 13253.	12.8	105
2	A long-lived capacitively shunted flux qubit embedded in a 3D cavity. Applied Physics Letters, 2019, 115, .	3.3	28
3	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
4	Electron paramagnetic resonance spectroscopy using a single artificial atom. Communications Physics, 2019, 2, .	5.3	24
5	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
6	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
7	Electron spin resonance with up to 20 spin sensitivity measured using a superconducting flux qubit. Applied Physics Letters, 2020, 116, .	3.3	16
8	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
9	Phonon-bottlenecked spin relaxation of Er³⁺:Y₂SiO₅at sub-kelvin temperatures. Applied Physics Express, 2018, 11, 043002.	2.4	12
10	Driven-state relaxation of a coupled qubit-defect system in spin-locking measurements. Physical Review B, 2020, 102, .	3.2	5
11	Architecture to achieve nuclear magnetic resonance spectroscopy with a superconducting flux qubit. Physical Review A, 2020, 101, .	2.5	4
12	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