Tomohiro Otsuka

List of Publications by Year
in descending order

21	1,165	933447 10	713466 21
papers	citations	h-index	g-index

21	21	21	1077
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A quantum-dot spin qubit with coherence limited by charge noise and fidelity higher than 99.9%. Nature Nanotechnology, 2018, 13, 102-106.	31.5	574
2	A fault-tolerant addressable spin qubit in a natural silicon quantum dot. Science Advances, 2016, 2, e1600694.	10.3	170
3	Fast Electrical Control of Single Electron Spins in Quantum Dots with Vanishing Influence from Nuclear Spins. Physical Review Letters, 2014, 113, 267601.	7.8	70
4	Robust micromagnet design for fast electrical manipulations of single spins in quantum dots. Applied Physics Express, 2015, 8, 084401.	2.4	54
5	Quantum non-demolition measurement of an electron spin qubit. Nature Nanotechnology, 2019, 14, 555-560.	31.5	52
6	Quantum Dephasing in a Gated GaAs Triple Quantum Dot due to Nonergodic Noise. Physical Review Letters, 2016, 116, 046802.	7.8	46
7	Robust Single-Shot Spin Measurement with 99.5% Fidelity in a Quantum Dot Array. Physical Review Letters, 2017, 119, 017701.	7.8	45
8	Coherent electron-spin-resonance manipulation of three individual spins in a triple quantum dot. Applied Physics Letters, 2016, 108, .	3.3	38
9	Coherent transfer of electron spin correlations assisted by dephasing noise. Nature Communications, 2018, 9, 2133.	12.8	34
10	A fast quantum interface between different spin qubit encodings. Nature Communications, 2018, 9, 5066.	12.8	22
11	Probabilistic teleportation of a quantum dot spin qubit. Npj Quantum Information, 2021, 7, .	6.7	10
12	Detection of spin polarization utilizing singlet and triplet states in a single-lead quantum dot. Physical Review B, 2012, 86, .	3.2	7
13	Cotunneling spin blockade observed in a three-terminal triple quantum dot. Physical Review B, 2017, 96, .	3.2	7
14	Higher-order spin and charge dynamics in a quantum dot-lead hybrid system. Scientific Reports, 2017, 7, 12201.	3.3	7
15	Fast probe of local electronic states in nanostructures utilizing a single-lead quantum dot. Scientific Reports, 2015, 5, 14616.	3.3	6
16	Measurement of Energy Relaxation in Quantum Hall Edge States Utilizing Quantum Point Contacts. Journal of the Physical Society of Japan, 2014, 83, 014710.	1.6	5
17	Spinâ€“orbit assisted spin funnels in DC transport through a physically defined pMOS double quantum dot. Japanese Journal of Applied Physics, 2019, 58, SBBI07.	1.5	5
18	Formation of quantum dots in GaN/AlGaN FETs. Scientific Reports, 2020, 10, 15421.	3.3	5

#	Article	IF	Citations
19	Difference in charge and spin dynamics in a quantum dotâ€“lead coupled system. Physical Review B, 2019, 99, .	3.2	4
20	Transportation and discrimination of cells using ultrasound flexural vibration of a glass substrate. Japanese Journal of Applied Physics, 2019, 58, SGGD10.	1.5	2
21	Gate voltage dependence of noise distribution in radio-frequency reflectometry in gallium arsenide quantum dots. Applied Physics Express, 2021, 14, 035002.	2.4	2