

John M Nichol

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8552523/publications.pdf>

Version: 2024-02-01

23
papers

877
citations

567281

15
h-index

677142

22
g-index

25
all docs

25
docs citations

25
times ranked

883
citing authors

#	ARTICLE	IF	CITATIONS
1	High-fidelity entangling gate for double-quantum-dot spin qubits. Npj Quantum Information, 2017, 3, .	6.7	174
2	Low-frequency charge noise in Si/SiGe quantum dots. Physical Review B, 2019, 100, .	3.2	80
3	Displacement detection of silicon nanowires by polarization-enhanced fiber-optic interferometry. Applied Physics Letters, 2008, 93, .	3.3	76
4	Nanomechanical detection of nuclear magnetic resonance using a silicon nanowire oscillator. Physical Review B, 2012, 85, .	3.2	76
5	Coherent spin-state transfer via Heisenberg exchange. Nature, 2019, 573, 553-557.	27.8	71
6	Quenching of dynamic nuclear polarization by spin-orbit coupling in GaAs quantum dots. Nature Communications, 2015, 6, 7682.	12.8	59
7	Rapid high-fidelity spin-state readout in Si^+ quantum dots. Nature Communications, 2019, 10, 5111.	3.8	44
8	Charge-noise spectroscopy of Si/SiGe quantum dots via dynamically-decoupled exchange oscillations. Nature Communications, 2022, 13, 940.	12.8	42
9	Adiabatic quantum state transfer in a semiconductor quantum-dot spin chain. Nature Communications, 2021, 12, 2156.	12.8	34
10	Controlling the nonlinearity of silicon nanowire resonators using active feedback. Applied Physics Letters, 2009, 95, 123116.	3.3	32
11	Nanoscale Fourier-Transform Magnetic Resonance Imaging. Physical Review X, 2013, 3, .	8.9	27
12	Readout of singlet-triplet qubits at large magnetic field gradients. Physical Review B, 2018, 98, .	3.2	25
13	Conditional teleportation of quantum-dot spin states. Nature Communications, 2020, 11, 3022.	12.8	22
14	Coherent Multispin Exchange Coupling in a Quantum-Dot Spin Chain. Physical Review X, 2020, 10, .	8.9	21
15	Long-Distance Superexchange between Semiconductor Quantum-Dot Electron Spins. Physical Review Letters, 2021, 126, 017701.	7.8	18
16	Stabilization and manipulation of multispin states in quantum-dot time crystals with Heisenberg interactions. Physical Review B, 2019, 99, .	3.2	15
17	Floquet-enhanced spin swaps. Nature Communications, 2021, 12, 2142.	12.8	15
18	An anomaly in the isotopomer shift of the hyperfine spectrum of LiI. Journal of Chemical Physics, 2005, 123, 134321.	3.0	12

#	ARTICLE	IF	CITATIONS
19	Protecting quantum information in quantum dot spin chains by driving exchange interactions periodically. <i>Physical Review B</i> , 2021, 103, .	3.2	10
20	Perspective on exchange-coupled quantum-dot spin chains. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	10
21	Advances and opportunities in materials science for scalable quantum computing. <i>MRS Bulletin</i> , 2021, 46, 589-595.	3.5	9
22	Electron spin-flip correlations due to nuclear dynamics in driven GaAs double dots. <i>Physical Review B</i> , 2017, 95, .	3.2	5
23	Quantum information processing with semiconductor quantum dots. , 2022, , .		0