

Shavindra P Premaratne

List of Publications by Year in descending order

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Version: 2024-02-01

13
papers

207
citations

1307594

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h-index

1372567

10
g-index

13
all docs

13
docs citations

13
times ranked

353
citing authors

#	ARTICLE	IF	CITATIONS
1	Variational preparation of finite-temperature states on a quantum computer. Npj Quantum Information, 2021, 7, .	6.7	8
2	A Fully Integrated Cryo-CMOS SoC for State Manipulation, Readout, and High-Speed Gate Pulsing of Spin Qubits. IEEE Journal of Solid-State Circuits, 2021, 56, 3289-3306.	5.4	19
3	Machine-learning-based three-qubit gate design for the Toffoli gate and parity check in transmon systems. Physical Review A, 2020, 102, .	2.5	9
4	Enhancing a Near-Term Quantum Accelerator's Instruction Set Architecture for Materials Science Applications. IEEE Transactions on Quantum Engineering, 2020, 1, 1-7.	4.9	6
5	Engineering a Cost Function for Real-world Implementation of a Variational Quantum Algorithm. , 2020, , .		1
6	Designing high-fidelity multi-qubit gates for semiconductor quantum dots through deep reinforcement learning. , 2020, , .		2
7	Hot electron heatsinks for microwave attenuators below 100â€‰mK. Applied Physics Letters, 2019, 114, 152602.	3.3	5
8	Implementation of a generalized controlled-NOT gate between fixed-frequency transmons. Physical Review A, 2019, 99, .	2.5	13
9	Microwave photon Fock state generation by stimulated Raman adiabatic passage. Nature Communications, 2017, 8, 14148.	12.8	43
10	Characterization of coherent population-trapped states in a circuit-QED $\hat{\rho}$ system. Physical Review A, 2017, 96, .	2.5	4
11	Microwave attenuators for use with quantum devices below 100 mK. Journal of Applied Physics, 2017, 121, .	2.5	52
12	Raman coherence in a circuit quantum electrodynamics lambda system. Nature Physics, 2016, 12, 75-79.	16.7	45
13	Simultaneous analysis of non-strange negative parity baryon properties in large Nc QCD. Sri Lankan Journal of Physics, 2013, 13, 27.	0.9	0