Timothy J Proctor

List of Publications by Year
in descending order

25 papers	927 citations	687363 13 h-index	610901 24 g-index
25 all docs	25 docs citations	25 times ranked	752 citing authors

#	Article	IF	Citations
1	Characterizing Midcircuit Measurements on a Superconducting Qubit Using Gate Set Tomography. Physical Review Applied, 2022, 17, .	3.8	8
2	Precision tomography of a three-qubit donor quantum processor in silicon. Nature, 2022, 601, 348-353.	27.8	118
3	Measuring the capabilities of quantum computers. Nature Physics, 2022, 18, 75-79.	16.7	48
4	A Taxonomy of Small Markovian Errors. PRX Quantum, 2022, 3, .	9.2	12
5	Efficient flexible characterization of quantum processors with nested error models. New Journal of Physics, 2021, 23, 093020.	2.9	4
6	Experimental Characterization of Crosstalk Errors with Simultaneous Gate Set Tomography. PRX Quantum, 2021, 2, .	9.2	22
7	Probing quantum processor performance with pyGSTi. Quantum Science and Technology, 2020, 5, 044002.	5.8	36
8	Detecting and tracking drift in quantum information processors. Nature Communications, 2020, 11, 5396.	12.8	36
9	Quantum sensing networks for the estimation of linear functions. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 344001.	2.1	25
10	Direct Randomized Benchmarking for Multiqubit Devices. Physical Review Letters, 2019, 123, 030503.	7.8	71
11	Probing Context-Dependent Errors in Quantum Processors. Physical Review X, 2019, 9, .	8.9	41
12	Multiparameter Estimation in Networked Quantum Sensors. Physical Review Letters, 2018, 120, 080501.	7.8	174
13	What Randomized Benchmarking Actually Measures. Physical Review Letters, 2017, 119, 130502.	7.8	78
14	Ancilla-driven quantum computation for qudits and continuous variables. Physical Review A, 2017, 95, .	2.5	7
15	Local versus global strategies in multiparameter estimation. Physical Review A, 2016, 94, .	2.5	58
16	Practical quantum metrology with large precision gains in the low-photon-number regime. Physical Review A, 2016, 93, .	2.5	34
17	Hybrid quantum computing with ancillas. Contemporary Physics, 2016, 57, 459-476.	1.8	7
18	Quantum computation mediated by ancillary qudits and spin coherent states. Physical Review A, 2015, 91, .	2.5	6

#	Article	IF	Citations
19	Generating non-classical states from spin coherent states via interaction with ancillary spins. Optics Communications, 2015, 337, 71-78.	2.1	1
20	Minimal ancilla mediated quantum computation. EPJ Quantum Technology, 2014, 1, .	6.3	3
21	Nonreversal and nonrepeating quantum walks. Physical Review A, 2014, 89, .	2.5	9
22	Effect of multimode entanglement on lossy optical quantum metrology. Physical Review A, 2014, 90, .	2.5	24
23	Universal quantum computation by the unitary control of ancilla qubits and using a fixed ancilla-register interaction. Physical Review A, 2013, 88, .	2.5	7
24	Low-error measurement-free phase gates for qubus computation. Physical Review A, 2012, 86, .	2.5	3
25	Detecting crosstalk errors in quantum information processors. Quantum - the Open Journal for Quantum Science, 0, 4, 321.	0.0	95