

# Timothy J Proctor

## List of Publications by Year in descending order

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752  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiparameter Estimation in Networked Quantum Sensors. <i>Physical Review Letters</i> , 2018, 120, 080501.	7.8	174
2	Precision tomography of a three-qubit donor quantum processor in silicon. <i>Nature</i> , 2022, 601, 348-353.	27.8	118
3	Detecting crosstalk errors in quantum information processors. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 4, 321.	0.0	95
4	What Randomized Benchmarking Actually Measures. <i>Physical Review Letters</i> , 2017, 119, 130502.	7.8	78
5	Direct Randomized Benchmarking for Multiqubit Devices. <i>Physical Review Letters</i> , 2019, 123, 030503.	7.8	71
6	Local versus global strategies in multiparameter estimation. <i>Physical Review A</i> , 2016, 94, .	2.5	58
7	Measuring the capabilities of quantum computers. <i>Nature Physics</i> , 2022, 18, 75-79.	16.7	48
8	Probing Context-Dependent Errors in Quantum Processors. <i>Physical Review X</i> , 2019, 9, .	8.9	41
9	Probing quantum processor performance with pyGSTi. <i>Quantum Science and Technology</i> , 2020, 5, 044002.	5.8	36
10	Detecting and tracking drift in quantum information processors. <i>Nature Communications</i> , 2020, 11, 5396.	12.8	36
11	Practical quantum metrology with large precision gains in the low-photon-number regime. <i>Physical Review A</i> , 2016, 93, .	2.5	34
12	Quantum sensing networks for the estimation of linear functions. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 344001.	2.1	25
13	Effect of multimode entanglement on lossy optical quantum metrology. <i>Physical Review A</i> , 2014, 90, .	2.5	24
14	Experimental Characterization of Crosstalk Errors with Simultaneous Gate Set Tomography. <i>PRX Quantum</i> , 2021, 2, .	9.2	22
15	A Taxonomy of Small Markovian Errors. <i>PRX Quantum</i> , 2022, 3, .	9.2	12
16	Nonreversal and nonrepeating quantum walks. <i>Physical Review A</i> , 2014, 89, .	2.5	9
17	Characterizing Midcircuit Measurements on a Superconducting Qubit Using Gate Set Tomography. <i>Physical Review Applied</i> , 2022, 17, .	3.8	8
18	Universal quantum computation by the unitary control of ancilla qubits and using a fixed ancilla-register interaction. <i>Physical Review A</i> , 2013, 88, .	2.5	7

#	ARTICLE	IF	CITATIONS
19	Hybrid quantum computing with ancillas. Contemporary Physics, 2016, 57, 459-476.	1.8	7
20	Ancilla-driven quantum computation for qudits and continuous variables. Physical Review A, 2017, 95, .	2.5	7
21	Quantum computation mediated by ancillary qudits and spin coherent states. Physical Review A, 2015, 91, .	2.5	6
22	Efficient flexible characterization of quantum processors with nested error models. New Journal of Physics, 2021, 23, 093020.	2.9	4
23	Low-error measurement-free phase gates for qubus computation. Physical Review A, 2012, 86, .	2.5	3
24	Minimal ancilla mediated quantum computation. EPJ Quantum Technology, 2014, 1, .	6.3	3
25	Generating non-classical states from spin coherent states via interaction with ancillary spins. Optics Communications, 2015, 337, 71-78.	2.1	1