

Nathan K Langford

List of Publications by Year in descending order

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53
papers

6,834
citations

117625

34
h-index

254184

43
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53
all docs

53
docs citations

53
times ranked

5342
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum Chaos and Universal Trotterisation Performance Behaviours in Digital Quantum Simulation. , 2021, , .		1
2	Chip-to-chip entanglement of transmon qubits using engineered measurement fields. Physical Review B, 2018, 97, .	3.2	25
3	Evolution of Nanowire Transmon Qubits and Their Coherence in a Magnetic Field. Physical Review Letters, 2018, 120, 100502.	7.8	63
4	Tuneable hopping and nonlinear cross-Kerr interactions in a high-coherence superconducting circuit. Npj Quantum Information, 2018, 4, .	6.7	66
5	Experimentally simulating the dynamics of quantum light and matter at deep-strong coupling. Nature Communications, 2017, 8, 1715.	12.8	155
6	Contextuality without nonlocality in a superconducting quantum system. Nature Communications, 2016, 7, 12930.	12.8	38
7	Independent, extensible control of same-frequency superconducting qubits by selective broadcasting. Npj Quantum Information, 2016, 2, .	6.7	35
8	Reducing intrinsic loss in superconducting resonators by surface treatment and deep etching of silicon substrates. Applied Physics Letters, 2015, 106, .	3.3	137
9	Quantum teleportation on a photonic chip. Nature Photonics, 2014, 8, 770-774.	31.4	144
10	Quantum interference of multiple on-chip heralded sources of pure single photons. , 2014, , .		2
11	Quantum memories and large-scale quantum coherence based on Raman interactions. , 2013, , .		0
12	Boson Sampling on a Photonic Chip. Science, 2013, 339, 798-801.	12.6	686
13	Errors in quantum tomography: diagnosing systematic versus statistical errors. New Journal of Physics, 2013, 15, 035003.	2.9	21
14	Multiphoton quantum interference in a multiport integrated photonic device. Nature Communications, 2013, 4, 1356.	12.8	128
15	On-chip low loss heralded source of pure single photons. Optics Express, 2013, 21, 13522.	3.4	107
16	Enhancing Multiphoton Rates with Quantum Memories. Physical Review Letters, 2013, 110, 133601.	7.8	118
17	Loophole-free Einsteinâ€Podolskyâ€Rosen experiment via quantum steering. New Journal of Physics, 2012, 14, 053030.	2.9	206
18	Adaptive slit beam shaping for direct laser written waveguides. Optics Letters, 2012, 37, 470.	3.3	74

#	ARTICLE	IF	CITATIONS
19	Polarization-entanglement-conserving frequency conversion of photons. <i>Physical Review A</i> , 2012, 85, .	2.5	66
20	Synchronizing single photons with quantum memories. , 2012, , .		0
21	Compact Continuous-Variable Entanglement Distillation. <i>Physical Review Letters</i> , 2012, 108, 060502.	7.8	54
22	Macroscopic non-classical states and terahertz quantum processing in room-temperature diamond. <i>Nature Photonics</i> , 2012, 6, 41-44.	31.4	112
23	High-fidelity polarization storage in a gigahertz bandwidth quantum memory. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 124008.	1.5	35
24	Multipulse Addressing of a Raman Quantum Memory: Configurable Beam Splitting and Efficient Readout. <i>Physical Review Letters</i> , 2012, 108, 263602.	7.8	68
25	Experimental non-classicality of an indivisible quantum system. <i>Nature</i> , 2011, 474, 490-493.	27.8	249
26	Efficient quantum computing using coherent photon conversion. <i>Nature</i> , 2011, 478, 360-363.	27.8	122
27	Entangling Macroscopic Diamonds at Room Temperature. <i>Science</i> , 2011, 334, 1253-1256.	12.6	299
28	Integrated photonic sensing. <i>New Journal of Physics</i> , 2011, 13, 055024.	2.9	23
29	On-chip, photon-number-resolving, telecommunication-band detectors for scalable photonic information processing. <i>Physical Review A</i> , 2011, 84, .	2.5	75
30	Single-photon-level memory at room temperature. , 2011, , .		0
31	Single-Photon-Level Quantum Memory at Room Temperature. <i>Physical Review Letters</i> , 2011, 107, 053603.	7.8	199
32	Towards high-speed optical quantum memories. <i>Nature Photonics</i> , 2010, 4, 218-221.	31.4	290
33	Quantum memory in an optical lattice. <i>Physical Review A</i> , 2010, 82, .	2.5	12
34	Applications of Raman Scattering in Quantum Technologies. , 2010, , .		1
35	Violation of local realism with freedom of choice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 19708-19713.	7.1	196
36	Discrete Tunable Color Entanglement. <i>Physical Review Letters</i> , 2009, 103, 253601.	7.8	147

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37	Experimentally generating and tuning robust entanglement between photonic qubits. New Journal of Physics, 2009, 11, 013008.	2.9	16
38	Manipulating Biphotonic Qutrits. Physical Review Letters, 2008, 100, 060504.	7.8	132
39	Choice of measurement sets in qubit tomography. Physical Review A, 2008, 78, .	2.5	102
40	Efficient quantum logic circuits: or, How I Learned to Stop Worrying and Love Hilbert Space. , 2007, , IFB3.		0
41	Experimental Demonstration of a Compiled Version of Shor's Algorithm with Quantum Entanglement. Physical Review Letters, 2007, 99, 250505.	7.8	221
42	Entanglement Generation by Fock-State Filtration. Physical Review Letters, 2007, 98, 203602.	7.8	21
43	Measuring two-qubit gates. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 172.	2.1	111
44	Efficient quantum-logic circuits: or, How I Learned to Stop Worrying and Love Hilbert Space. , 2007, , .		0
45	Hyper-entanglement: Generation and applications. , 2006, , .		0
46	The practicality of adaptive phase estimation. Optics and Spectroscopy (English Translation of Optika i tj ETQq0 0,0rgBT /Oylock 10 0,6		
47	Distance measures to compare real and ideal quantum processes. Physical Review A, 2005, 71, .	2.5	479
48	Demonstration of a Simple Entangling Optical Gate and Its Use in Bell-State Analysis. Physical Review Letters, 2005, 95, 210504.	7.8	222
49	Generation of Hyperentangled Photon Pairs. Physical Review Letters, 2005, 95, 260501.	7.8	610
50	Adaptive phase estimation is more accurate than nonadaptive phase estimation for continuous beams of light. Physical Review A, 2004, 70, .	2.5	23
51	Quantum Process Tomography of a Controlled-NOT Gate. Physical Review Letters, 2004, 93, 080502.	7.8	378
52	Measuring Entangled Qutrits and Their Use for Quantum Bit Commitment. Physical Review Letters, 2004, 93, 053601.	7.8	307
53	Linear optical controlled-NOT gate in the coincidence basis. Physical Review A, 2002, 65, .	2.5	258