Daniel Kl Oi

List of Publications by Year
in descending order

76 papers	2,912 citations	185998 28 h-index	168136 53 g-index
76 all docs	76 docs citations	76 times ranked	1944 citing authors

#	Article	IF	Citations
1	Quantum physics in space. Physics Reports, 2022, 951, 1-70.	10.3	38
2	Finite key effects in satellite quantum key distribution. Npj Quantum Information, 2022, 8, .	2.8	19
3	Modelling efficient BB84 with applications for medium-range, terrestrial free-space QKD. New Journal of Physics, 2022, 24, 075002.	1.2	4
4	Compressive Sampling Using a Pushframe Camera. IEEE Transactions on Computational Imaging, 2021, 7, 1069-1079.	2.6	3
5	Advances in space quantum communications. IET Quantum Communication, 2021, 2, 182-217.	2.2	91
6	Timing and synchronisation for high‐loss free‐space quantum communication with Hybrid de Bruijn Codes. IET Quantum Communication, 2021, 2, 80-89.	2.2	7
7	Proposal for space-borne quantum memories for global quantum networking. Npj Quantum Information, 2021, 7, .	2.8	42
8	Key generation analysis for satellite quantum key distribution. , 2021, , .		6
9	Medium-range terrestrial free-space QKD performance modelling and analysis. , 2021, , .		2
10	Compressive Sampling Using a Pushframe Camera. , 2021, , .		2
11	QUARC: Quantum Research Cubesat—A Constellation for Quantum Communication. Cryptography, 2020, 4, 7.	1.4	46
12	Scheduling of space to ground quantum key distribution. EPJ Quantum Technology, 2020, 7, .	2.9	30
13	Entanglement demonstration on board a nano-satellite. Optica, 2020, 7, 734.	4.8	65
14	Entanglement demonstration onboard a nano-satellite. , 2020, , .		0
15	Compact multispectral pushframe camera for nanosatellites. Applied Optics, 2020, 59, 8511.	0.9	4
16	Answers for some of the biggest questions may be given by the very smallest. Advanced Optical Technologies, 2020, 9, 241-242.	0.9	0
17	CubeSat quantum communications mission. EPJ Quantum Technology, 2017, 4, .	2.9	86
18	Linear quantum optical bare raising operator. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 215501.	0.6	3

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19	Nanosatellites for quantum science and technology. Contemporary Physics, 2017, 58, 25-52.	0.8	27
20	Generation and analysis of correlated pairs of photons on board a nanosatellite. , 2016, , .		0
21	Deterministic amplification of Schrödinger cat states in circuit quantum electrodynamics. New Journal of Physics, 2016, 18, 023028.	1.2	6
22	Nanosatellite experiments to enable future space-based QKD missions. EPJ Quantum Technology, 2016, 3, .	2.9	35
23	Generation and Analysis of Correlated Pairs of Photons aboard a Nanosatellite. Physical Review Applied, 2016, 5, .	1.5	58
24	Generation and analysis of correlated pairs of photons on board a nanosatellite. Proceedings of SPIE, 2016, , .	0.8	2
25	Generation and analysis of correlated pairs of photons on a satellite. , 2016, , .		0
26	Quantum Hilbert Hotel. Physical Review Letters, 2015, 115, 160505.	2.9	39
27	Deploying quantum light sources on nanosatellites II: lessons and perspectives on CubeSat spacecraft. Proceedings of SPIE, 2015, , .	0.8	6
28	Unlearning quantum information. European Physical Journal D, 2014, 68, 1.	0.6	2
29	Testing the effects of gravity and motion on quantum entanglement in space-based experiments. New Journal of Physics, 2014, 16, 053041.	1.2	33
30	Unitary holonomies by direct degenerate projections. Physical Review A, 2014, 89, .	1.0	3
31	Nondemolition Measurement of the Vacuum State or its Complement. Physical Review Letters, 2013, 110, 210504.	2.9	29
32	Quantum Optics for Space Platforms. Optics and Photonics News, 2012, 23, 42.	0.4	24
33	Quantum system characterization with limited resources. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 5386-5395.	1.6	5
34	Limits on the decay rate of quantum coherence and correlation. Physical Review A, 2012, 86, .	1.0	9
35	Ancilla-driven quantum computation with twisted graph states. Theoretical Computer Science, 2012, 430, 51-72.	0.5	6
36	Reference frames for Bell inequality violation in the presence of superselection rules. New Journal of Physics, 2011, 13, 043027.	1.2	8

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37	Quantum system identification by Bayesian analysis of noisy data: Beyond Hamiltonian tomography. Laser Physics, 2010, 20, 1203-1209.	0.6	20
38	Decision problems with quantum black boxes. Journal of Modern Optics, 2010, 57, 244-252.	0.6	4
39	Ancilla-driven universal quantum computation. Physical Review A, 2010, 82, .	1.0	51
40	Two-qubit Hamiltonian tomography by Bayesian analysis of noisy data. Physical Review A, 2009, 80, .	1.0	38
41	Twisted Graph States for Ancilla-driven Universal Quantum Computation. Electronic Notes in Theoretical Computer Science, 2009, 249, 307-331.	0.9	17
42	Coherent Time Evolution of a Single-Electron Wave Function. Physical Review Letters, 2009, 102, 156801.	2.9	59
43	Binary search trees for generalized measurements. Physical Review A, 2008, 77, .	1.0	40
44	Physics-based mathematical models for quantum devices via experimental system identification. Journal of Physics: Conference Series, 2008, 107, 012011.	0.3	9
45	Subspace confinement: how good is your qubit?. New Journal of Physics, 2007, 9, 384-384.	1.2	19
46	Operational approach to the Uhlmann holonomy. Physical Review A, 2007, 75, .	1.0	17
47	Fidelity and Coherence Measures from Interference. Physical Review Letters, 2006, 97, 220404.	2.9	13
48	Scalable error correction in distributed ion trap computers. Physical Review A, 2006, 74, .	1.0	28
49	Publisher's Note: Experimental quantum multimeter and one-qubit fingerprinting [Phys. Rev. A74, 042319 (2006)]. Physical Review A, 2006, 74, .	1.0	0
50	Experimental quantum multimeter and one-qubit fingerprinting. Physical Review A, 2006, 74, .	1.0	23
51	Identifying a two-state Hamiltonian in the presence of decoherence. Physical Review A, 2006, 73, .	1.0	32
52	Surface-acoustic-wave single-electron interferometry. Physical Review B, 2005, 72, .	1.1	25
53	Controlled phase gate for solid-state charge-qubit architectures. Physical Review A, 2005, 71, .	1.0	10
54	Identifying an experimental two-state Hamiltonian to arbitrary accuracy. Physical Review A, 2005, 71, .	1.0	64

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55	Quantum tomographic cryptography with Bell diagonal states: Nonequivalence of classical and quantum distillation protocols. Physical Review A, 2005, 71, .	1.0	8
56	Robust charge-based qubit encoding. Physical Review B, 2005, 72, .	1.1	10
57	A UNIVERSAL QUANTUM ESTIMATOR. International Journal of Quantum Information, 2005, 03, 123-132.	0.6	0
58	A UNIVERSAL QUANTUM ESTIMATOR. , 2005, , .		0
59	Experimental Hamiltonian identification for controlled two-level systems. Physical Review A, 2004, 69, .	1.0	53
60	Experimental Hamiltonian Identification for Qubits subject to Multiple Independent Control Mechanisms. AIP Conference Proceedings, 2004, , .	0.3	2
61	Quantum cryptography based on qutrit Bell inequalities. Physical Review A, 2003, 67, .	1.0	63
62	Generalization of the geometric phase to completely positive maps. Physical Review A, 2003, 67, .	1.0	85
63	Observation of Geometric Phases for Mixed States using NMR Interferometry. Physical Review Letters, 2003, 91, 100403.	2.9	130
64	Mixed State Geometric Phases, Entangled Systems, and Local Unitary Transformations. Physical Review Letters, 2003, 91, 090405.	2.9	59
65	Interference of Quantum Channels. Physical Review Letters, 2003, 91, 067902.	2.9	46
66	Direct estimation of functionals of density operators by local operations and classical communication. Physical Review A, 2003, 68, .	1.0	33
67	Efficient Implementation of Separability Criteria. Journal of the Physical Society of Japan, 2003, 72, 174-180.	0.7	0
68	Anandanet al.Reply:. Physical Review Letters, 2002, 89, .	2.9	28
69	Fidelity of single qubit maps. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 294, 258-260.	0.9	131
70	Direct Estimations of Linear and Nonlinear Functionals of a Quantum State. Physical Review Letters, 2002, 88, 217901.	2.9	299
71	WHAT IS QUANTUM COMPUTATION?. International Journal of Modern Physics A, 2001, 16, 3335-3363.	0.5	11
72	QUANTUM ENTANGLEMENT AND SECRECY. , 2001, , .		0

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73	Geometric quantum computation. Journal of Modern Optics, 2000, 47, 2501-2513.	0.6	206
74	Geometric Phases for Mixed States in Interferometry. Physical Review Letters, 2000, 85, 2845-2849.	2.9	489
75	Sapphire test-masses for measuring the standard quantum limit and achieving quantum non-demolition. Applied Physics B: Lasers and Optics, 1997, 64, 153-166.	1.1	24
76	Geometric quantum computation. , 0, .		26