Daniel Kl Oi

List of Publications by Year
in descending order

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76 papers	2,912 citations	186265 28 h-index	168389 53 g-index
76 all docs	76 docs citations	76 times ranked	1944 citing authors

#	Article	IF	Citations
1	Geometric Phases for Mixed States in Interferometry. Physical Review Letters, 2000, 85, 2845-2849.	7.8	489
2	Direct Estimations of Linear and Nonlinear Functionals of a Quantum State. Physical Review Letters, 2002, 88, 217901.	7.8	299
3	Geometric quantum computation. Journal of Modern Optics, 2000, 47, 2501-2513.	1.3	206
4	Fidelity of single qubit maps. Physics Letters, Section A: General, Atomic and Solid State Physics, 2002, 294, 258-260.	2.1	131
5	Observation of Geometric Phases for Mixed States using NMR Interferometry. Physical Review Letters, 2003, 91, 100403.	7.8	130
6	Advances in space quantum communications. IET Quantum Communication, 2021, 2, 182-217.	3.8	91
7	CubeSat quantum communications mission. EPJ Quantum Technology, 2017, 4, .	6.3	86
8	Generalization of the geometric phase to completely positive maps. Physical Review A, 2003, 67, .	2.5	85
9	Entanglement demonstration on board a nano-satellite. Optica, 2020, 7, 734.	9.3	65
10	Identifying an experimental two-state Hamiltonian to arbitrary accuracy. Physical Review A, 2005, 71, .	2.5	64
11	Quantum cryptography based on qutrit Bell inequalities. Physical Review A, 2003, 67, .	2.5	63
12	Mixed State Geometric Phases, Entangled Systems, and Local Unitary Transformations. Physical Review Letters, 2003, 91, 090405.	7.8	59
13	Coherent Time Evolution of a Single-Electron Wave Function. Physical Review Letters, 2009, 102, 156801.	7.8	59
14	Generation and Analysis of Correlated Pairs of Photons aboard a Nanosatellite. Physical Review Applied, 2016, 5, .	3.8	58
15	Experimental Hamiltonian identification for controlled two-level systems. Physical Review A, 2004, 69, .	2.5	53
16	Ancilla-driven universal quantum computation. Physical Review A, 2010, 82, .	2.5	51
17	Interference of Quantum Channels. Physical Review Letters, 2003, 91, 067902.	7.8	46
18	QUARC: Quantum Research Cubesatâ€”A Constellation for Quantum Communication. Cryptography, 2020, 4, 7.	2.3	46

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19	Proposal for space-borne quantum memories for global quantum networking. Npj Quantum Information, 2021, 7, .	6.7	42
20	Binary search trees for generalized measurements. Physical Review A, 2008, 77, .	2.5	40
21	Quantum Hilbert Hotel. Physical Review Letters, 2015, 115, 160505.	7.8	39
22	Two-qubit Hamiltonian tomography by Bayesian analysis of noisy data. Physical Review A, 2009, 80, .	2.5	38
23	Quantum physics in space. Physics Reports, 2022, 951, 1-70.	25.6	38
24	Nanosatellite experiments to enable future space-based QKD missions. EPJ Quantum Technology, 2016, 3, .	6.3	35
25	Direct estimation of functionals of density operators by local operations and classical communication. Physical Review A, 2003, 68, .	2.5	33
26	Testing the effects of gravity and motion on quantum entanglement in space-based experiments. New Journal of Physics, 2014, 16, 053041.	2.9	33
27	Identifying a two-state Hamiltonian in the presence of decoherence. Physical Review A, 2006, 73, .	2.5	32
28	Scheduling of space to ground quantum key distribution. EPJ Quantum Technology, 2020, 7, .	6.3	30
29	Nondemolition Measurement of the Vacuum State or its Complement. Physical Review Letters, 2013, 110, 210504.	7.8	29
30	Anandanet al.Reply:. Physical Review Letters, 2002, 89, .	7.8	28
31	Scalable error correction in distributed ion trap computers. Physical Review A, 2006, 74, .	2.5	28
32	Nanosatellites for quantum science and technology. Contemporary Physics, 2017, 58, 25-52.	1.8	27
33	Geometric quantum computation. Journal of Modern Optics, 2000, 47, 2501-2513.	1.3	26
34	Surface-acoustic-wave single-electron interferometry. Physical Review B, 2005, 72, .	3.2	25
35	Sapphire test-masses for measuring the standard quantum limit and achieving quantum non-demolition. Applied Physics B: Lasers and Optics, 1997, 64, 153-166.	2.2	24
36	Quantum Optics for Space Platforms. Optics and Photonics News, 2012, 23, 42.	0.5	24

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37	Experimental quantum multimeter and one-qubit fingerprinting. Physical Review A, 2006, 74, .	2.5	23
38	Quantum system identification by Bayesian analysis of noisy data: Beyond Hamiltonian tomography. Laser Physics, 2010, 20, 1203-1209.	1.2	20
39	Subspace confinement: how good is your qubit?. New Journal of Physics, 2007, 9, 384-384.	2.9	19
40	Finite key effects in satellite quantum key distribution. Npj Quantum Information, 2022, 8, .	6.7	19
41	Operational approach to the Uhlmann holonomy. Physical Review A, 2007, 75, .	2.5	17
42	Twisted Graph States for Ancilla-driven Universal Quantum Computation. Electronic Notes in Theoretical Computer Science, 2009, 249, 307-331.	0.9	17
43	Fidelity and Coherence Measures from Interference. Physical Review Letters, 2006, 97, 220404.	7.8	13
44	WHAT IS QUANTUM COMPUTATION?. International Journal of Modern Physics A, 2001, 16, 3335-3363.	1.5	11
45	Controlled phase gate for solid-state charge-qubit architectures. Physical Review A, 2005, 71, .	2.5	10
46	Robust charge-based qubit encoding. Physical Review B, 2005, 72, .	3.2	10
47	Physics-based mathematical models for quantum devices via experimental system identification. Journal of Physics: Conference Series, 2008, 107, 012011.	0.4	9
48	Limits on the decay rate of quantum coherence and correlation. Physical Review A, 2012, 86, .	2.5	9
49	Quantum tomographic cryptography with Bell diagonal states: Nonequivalence of classical and quantum distillation protocols. Physical Review A, 2005, 71, .	2.5	8
50	Reference frames for Bell inequality violation in the presence of superselection rules. New Journal of Physics, 2011, 13, 043027.	2.9	8
51	Timing and synchronisation for highâ€loss freeâ€space quantum communication with Hybrid de Bruijn Codes. IET Quantum Communication, 2021, 2, 80-89.	3.8	7
52	Ancilla-driven quantum computation with twisted graph states. Theoretical Computer Science, 2012, 430, 51-72.	0.9	6
53	Deploying quantum light sources on nanosatellites II: lessons and perspectives on CubeSat spacecraft. Proceedings of SPIE, 2015, , .	0.8	6
54	Deterministic amplification of SchrÃ¶dinger cat states in circuit quantum electrodynamics. New Journal of Physics, 2016, 18, 023028.	2.9	6

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55	Key generation analysis for satellite quantum key distribution. , 2021, , .		6
56	Quantum system characterization with limited resources. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2012, 370, 5386-5395.	3.4	5
57	Decision problems with quantum black boxes. Journal of Modern Optics, 2010, 57, 244-252.	1.3	4
58	Compact multispectral pushframe camera for nanosatellites. Applied Optics, 2020, 59, 8511.	1.8	4
59	Modelling efficient BB84 with applications for medium-range, terrestrial free-space QKD. New Journal of Physics, 2022, 24, 075002.	2.9	4
60	Unitary holonomies by direct degenerate projections. Physical Review A, 2014, 89, .	2.5	3
61	Linear quantum optical bare raising operator. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 215501.	1.5	3
62	Compressive Sampling Using a Pushframe Camera. IEEE Transactions on Computational Imaging, 2021, 7, 1069-1079.	4.4	3
63	Experimental Hamiltonian Identification for Qubits subject to Multiple Independent Control Mechanisms. AIP Conference Proceedings, 2004, , .	0.4	2
64	Unlearning quantum information. European Physical Journal D, 2014, 68, 1.	1.3	2
65	Generation and analysis of correlated pairs of photons on board a nanosatellite. Proceedings of SPIE, 2016, , .	0.8	2
66	Medium-range terrestrial free-space QKD performance modelling and analysis. , 2021, , .		2
67	Compressive Sampling Using a Pushframe Camera. , 2021, , .		2
68	A UNIVERSAL QUANTUM ESTIMATOR. International Journal of Quantum Information, 2005, 03, 123-132.	1.1	0
69	Publisher's Note: Experimental quantum multimeter and one-qubit fingerprinting [Phys. Rev. A74, 042319 (2006)]. Physical Review A, 2006, 74, .	2.5	0
70	Generation and analysis of correlated pairs of photons on board a nanosatellite. , 2016, , .		0
71	QUANTUM ENTANGLEMENT AND SECRECY. , 2001, , .		0
72	Efficient Implementation of Separability Criteria. Journal of the Physical Society of Japan, 2003, 72, 174-180.	1.6	0

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73	A UNIVERSAL QUANTUM ESTIMATOR. , 2005, , .		0
74	Generation and analysis of correlated pairs of photons on a satellite. , 2016, , .		0
75	Entanglement demonstration onboard a nano-satellite. , 2020, , .		0
76	Answers for some of the biggest questions may be given by the very smallest. Advanced Optical Technologies, 2020, 9, 241-242.	1.7	0