

Dimitris Angelakis

List of Publications by Year in descending order

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61
papers

2,421
citations

304602

22
h-index

197736

49
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61
all docs

61
docs citations

61
times ranked

2102
citing authors

#	ARTICLE	IF	CITATIONS
1	Photon-blockade-induced Mott transitions and $\langle X \rangle \langle Y \rangle$ spin models in coupled cavity arrays. Physical Review A, 2007, 76, .	1.0	497
2	Spectroscopic signatures of localization with interacting photons in superconducting qubits. Science, 2017, 358, 1175-1179.	6.0	315
3	Quantum simulations and many-body physics with light. Reports on Progress in Physics, 2017, 80, 016401.	8.1	233
4	Fractional Quantum Hall State in Coupled Cavities. Physical Review Letters, 2008, 101, 246809.	2.9	158
5	Coherent phenomena in photonic crystals. Physical Review A, 2001, 64, .	1.0	84
6	Heralded generation of entanglement with coupled cavities. Physical Review A, 2008, 78, .	1.0	71
7	Beyond mean-field bistability in driven-dissipative lattices: Bunching-antibunching transition and quantum simulation. Physical Review A, 2016, 93, .	1.0	63
8	Topological Pumping of Photons in Nonlinear Resonator Arrays. Physical Review Letters, 2016, 117, 213603.	2.9	60
9	Non-equilibrium many-body effects in driven nonlinear resonator arrays. New Journal of Physics, 2012, 14, 103025.	1.2	52
10	Driven Open Quantum Systems and Floquet Stroboscopic Dynamics. Physical Review Letters, 2016, 117, 250401.	2.9	50
11	Steady-state entanglement between hybrid light-matter qubits. Europhysics Letters, 2009, 85, 20007.	0.7	48
12	Simulation of high-spin Heisenberg models in coupled cavities. Physical Review A, 2008, 78, .	1.0	47
13	A proposal for the implementation of quantum gates with photonic-crystal waveguides. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 362, 377-380.	0.9	45
14	Reproducing spin lattice models in strongly coupled atom-cavity systems. Europhysics Letters, 2008, 84, 20001.	0.7	44
15	Luttinger Liquid of Photons and Spin-Charge Separation in Hollow-Core Fibers. Physical Review Letters, 2011, 106, 153601.	2.9	43
16	Transient properties of modified reservoir-induced transparency. Physical Review A, 2000, 61, .	1.0	41
17	Optical simulation of charge conservation violation and Majorana dynamics. Optica, 2015, 2, 454.	4.8	41
18	Transfer of a polaritonic qubit through a coupled cavity array. Journal of Modern Optics, 2007, 54, 2307-2314.	0.6	39

#	ARTICLE	IF	CITATIONS
19	Repulsively induced photon superbunching in driven resonator arrays. <i>Physical Review A</i> , 2013, 87, .	1.0	36
20	Robust-to-loss entanglement generation using a quantum plasmonic nanoparticle array. <i>New Journal of Physics</i> , 2013, 15, 083017.	1.2	34
21	Dirac equation in 2-dimensional curved spacetime, particle creation, and coupled waveguide arrays. <i>Annals of Physics</i> , 2016, 374, 162-178.	1.0	32
22	Quantum plasmonic excitation in graphene and loss-insensitive propagation. <i>Physical Review A</i> , 2015, 92, .	1.0	23
23	Proposal for realization of the Majorana equation in a tabletop experiment. <i>Physical Review A</i> , 2013, 87, .	1.0	22
24	Few-photon transport in many-body photonic systems: A scattering approach. <i>Physical Review A</i> , 2015, 92, .	1.0	22
25	Weaving light-matter qubits into a one way quantum computer. <i>New Journal of Physics</i> , 2008, 10, 023012.	1.2	20
26	Mimicking Interacting Relativistic Theories with Stationary Pulses of Light. <i>Physical Review Letters</i> , 2013, 110, 100502.	2.9	20
27	Tunable Polarons in Bose-Einstein Condensates. <i>Scientific Reports</i> , 2017, 7, 2355.	1.6	18
28	Coherent control of long-distance steady-state entanglement in lossy resonator arrays. <i>Europhysics Letters</i> , 2010, 91, 10003.	0.7	17
29	Probing the effect of interaction in Anderson localization using linear photonic lattices. <i>Physical Review A</i> , 2014, 89, .	1.0	17
30	Probing the topological properties of the Jackiw-Rebbi model with light. <i>Scientific Reports</i> , 2014, 4, 6110.	1.6	17
31	Diagrammatic approach to multiphoton scattering. <i>Physical Review A</i> , 2017, 95, .	1.0	17
32	Quantum simulation of neutrino oscillations with trapped ions. <i>New Journal of Physics</i> , 2012, 14, 033028.	1.2	16
33	Generation and verification of high-dimensional entanglement from coupled-cavity arrays. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2007, 24, 266.	0.9	15
34	Dynamics of nonclassical light in integrated nonlinear waveguide arrays and generation of robust continuous-variable entanglement. <i>Physical Review A</i> , 2012, 85, .	1.0	15
35	Multisetting Greenberger-Horne-Zeilinger theorem. <i>Physical Review A</i> , 2014, 89, .	1.0	15
36	Expressibility and trainability of parametrized analog quantum systems for machine learning applications. <i>Physical Review Research</i> , 2020, 2, .	1.3	14

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37	Detecting the degree of macroscopic quantumness using an overlap measurement. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 3057.	0.9	12
38	Photonic lattice simulation of dissipation-induced correlations in bosonic systems. <i>Scientific Reports</i> , 2015, 5, 8438.	1.6	12
39	Gradient catastrophe of nonlinear photonic valley-Hall edge pulses. <i>Physical Review Research</i> , 2021, 3, .	1.3	12
40	Qubit-efficient encoding schemes for binary optimisation problems. <i>Quantum - the Open Journal for Quantum Science</i> , 0, 5, 454.	0.0	11
41	Frozen photons in Jaynes-Cummings arrays. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 224025.	0.6	10
42	Sine-Gordon and Bose-Hubbard dynamics with photons in a hollow-core fiber. <i>Physical Review A</i> , 2012, 85, .	1.0	9
43	Hidden order in quantum many-body dynamics of driven-dissipative nonlinear photonic lattices. <i>Physical Review A</i> , 2019, 99, .	1.0	9
44	A single-interaction step implementation of a quantum search in coupled micro-cavities. <i>Europhysics Letters</i> , 2010, 89, 20005.	0.7	8
45	Quantum simulation of Cooper pairing with photons. <i>Physical Review A</i> , 2012, 86, .	1.0	8
46	Strongly correlated photon transport in nonlinear photonic lattices with disorder: Probing signatures of the localization transition. <i>Physical Review A</i> , 2019, 99, .	1.0	6
47	Realization of the driven nonlinear Schrödinger equation with stationary light. <i>Europhysics Letters</i> , 2013, 103, 34001.	0.7	5
48	Dirac equation on a square waveguide lattice with site-dependent coupling strengths and the gravitational Aharonov-Bohm effect. <i>Physical Review A</i> , 2020, 102, .	1.0	4
49	Quantum simulation of superexchange magnetism in linear ion crystals. <i>Physical Review A</i> , 2014, 90, .	1.0	3
50	Quantum supremacy and quantum phase transitions. <i>Physical Review B</i> , 2021, 103, .	1.1	3
51	Spinons and holons with polarized photons in a nonlinear waveguide. <i>New Journal of Physics</i> , 2012, 14, 075027.	1.2	2
52	SIMULATING TOPOLOGICAL EFFECTS WITH PHOTONS IN COUPLED QED CAVITY ARRAYS. <i>International Journal of Modern Physics B</i> , 2014, 28, 1441003.	1.0	2
53	Photonic phase transitions, spin models, and QIP in coupled cavity arrays. , 2007, , .		1
54	Correlations and thermalization in driven cavity arrays. , 2011, , .		1

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55	FLUCTUATIONS ASSISTED STATIONARY ENTANGLEMENT IN DRIVEN QUANTUM SYSTEMS. International Journal of Modern Physics B, 2013, 27, 1345037.	1.0	1
56	Quantum transient heat transport in the hyperparametric oscillator. Physical Review A, 2021, 104, .	1.0	1
57	Implementing Universal Quantum Gates in Coupled Cavities. AIP Conference Proceedings, 2007, , .	0.3	0
58	Photonic quantum simulators: Mimicking condensed matter physics using photons. , 2011, , .		0
59	Semiclassical bifurcations and topological phase transitions in a one-dimensional lattice of coupled Lipkin-Meshkov-Glick models. Physical Review E, 2016, 94, 032123.	0.8	0
60	Verifying Atom Entanglement Schemes by Testing Bell's Inequality. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2001, 56, 27-34.	0.7	0
61	Optical simulation of unphysical Majorana dynamics. , 2016, , .		0