

Dimitris Angelakis

List of Publications by Year in descending order

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61
papers

2,421
citations

304743

22
h-index

197818

49
g-index

61
all docs

61
docs citations

61
times ranked

2102
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum supremacy and quantum phase transitions. Physical Review B, 2021, 103, .	3.2	3
2	Gradient catastrophe of nonlinear photonic valley-Hall edge pulses. Physical Review Research, 2021, 3, .	3.6	12
3	Quantum transient heat transport in the hyperparametric oscillator. Physical Review A, 2021, 104, .	2.5	1
4	Dirac equation on a square waveguide lattice with site-dependent coupling strengths and the gravitational Aharonov-Bohm effect. Physical Review A, 2020, 102, .	2.5	4
5	Expressibility and trainability of parametrized analog quantum systems for machine learning applications. Physical Review Research, 2020, 2, .	3.6	14
6	Strongly correlated photon transport in nonlinear photonic lattices with disorder: Probing signatures of the localization transition. Physical Review A, 2019, 99, .	2.5	6
7	Hidden order in quantum many-body dynamics of driven-dissipative nonlinear photonic lattices. Physical Review A, 2019, 99, .	2.5	9
8	Diagrammatic approach to multiphoton scattering. Physical Review A, 2017, 95, .	2.5	17
9	Tunable Polarons in Bose-Einstein Condensates. Scientific Reports, 2017, 7, 2355.	3.3	18
10	Spectroscopic signatures of localization with interacting photons in superconducting qubits. Science, 2017, 358, 1175-1179.	12.6	315
11	Quantum simulations and many-body physics with light. Reports on Progress in Physics, 2017, 80, 016401.	20.1	233
12	Semiclassical bifurcations and topological phase transitions in a one-dimensional lattice of coupled Lipkin-Meshkov-Glick models. Physical Review E, 2016, 94, 032123.	2.1	0
13	Driven Open Quantum Systems and Floquet Stroboscopic Dynamics. Physical Review Letters, 2016, 117, 250401.	7.8	50
14	Dirac equation in 2-dimensional curved spacetime, particle creation, and coupled waveguide arrays. Annals of Physics, 2016, 374, 162-178.	2.8	32
15	Beyond mean-field bistability in driven-dissipative lattices: Bunching-antibunching transition and quantum simulation. Physical Review A, 2016, 93, .	2.5	63
16	Topological Pumping of Photons in Nonlinear Resonator Arrays. Physical Review Letters, 2016, 117, 213603.	7.8	60
17	Optical simulation of unphysical Majorana dynamics. , 2016, , .		0
18	Quantum plasmonic excitation in graphene and loss-insensitive propagation. Physical Review A, 2015, 92, .	2.5	23

#	ARTICLE	IF	CITATIONS
19	Few-photon transport in many-body photonic systems: A scattering approach. <i>Physical Review A</i> , 2015, 92, .	2.5	22
20	Photonic lattice simulation of dissipation-induced correlations in bosonic systems. <i>Scientific Reports</i> , 2015, 5, 8438.	3.3	12
21	Optical simulation of charge conservation violation and Majorana dynamics. <i>Optica</i> , 2015, 2, 454.	9.3	41
22	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.	2.1	12
23	SIMULATING TOPOLOGICAL EFFECTS WITH PHOTONS IN COUPLED QED CAVITY ARRAYS. <i>International Journal of Modern Physics B</i> , 2014, 28, 1441003.	2.0	2
24	Multisetting Greenberger-Horne-Zeilinger theorem. <i>Physical Review A</i> , 2014, 89, .	2.5	15
25	Probing the effect of interaction in Anderson localization using linear photonic lattices. <i>Physical Review A</i> , 2014, 89, .	2.5	17
26	Quantum simulation of superexchange magnetism in linear ion crystals. <i>Physical Review A</i> , 2014, 90, .	2.5	3
27	Probing the topological properties of the Jackiw-Rebbi model with light. <i>Scientific Reports</i> , 2014, 4, 6110.	3.3	17
28	Frozen photons in Jaynes-Cummings arrays. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 224025.	1.5	10
29	Mimicking Interacting Relativistic Theories with Stationary Pulses of Light. <i>Physical Review Letters</i> , 2013, 110, 100502.	7.8	20
30	Proposal for realization of the Majorana equation in a tabletop experiment. <i>Physical Review A</i> , 2013, 87, .	2.5	22
31	Robust-to-loss entanglement generation using a quantum plasmonic nanoparticle array. <i>New Journal of Physics</i> , 2013, 15, 083017.	2.9	34
32	Repulsively induced photon superbunching in driven resonator arrays. <i>Physical Review A</i> , 2013, 87, .	2.5	36
33	FLUCTUATIONS ASSISTED STATIONARY ENTANGLEMENT IN DRIVEN QUANTUM SYSTEMS. <i>International Journal of Modern Physics B</i> , 2013, 27, 1345037.	2.0	1
34	Realization of the driven nonlinear Schrödinger equation with stationary light. <i>Europhysics Letters</i> , 2013, 103, 34001.	2.0	5
35	Quantum simulation of neutrino oscillations with trapped ions. <i>New Journal of Physics</i> , 2012, 14, 033028.	2.9	16
36	Non-equilibrium many-body effects in driven nonlinear resonator arrays. <i>New Journal of Physics</i> , 2012, 14, 103025.	2.9	52

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37	Spinons and holons with polarized photons in a nonlinear waveguide. <i>New Journal of Physics</i> , 2012, 14, 075027.	2.9	2
38	Quantum simulation of Cooper pairing with photons. <i>Physical Review A</i> , 2012, 86, .	2.5	8
39	Sine-Gordon and Bose-Hubbard dynamics with photons in a hollow-core fiber. <i>Physical Review A</i> , 2012, 85, .	2.5	9
40	Dynamics of nonclassical light in integrated nonlinear waveguide arrays and generation of robust continuous-variable entanglement. <i>Physical Review A</i> , 2012, 85, .	2.5	15
41	Luttinger Liquid of Photons and Spin-Charge Separation in Hollow-Core Fibers. <i>Physical Review Letters</i> , 2011, 106, 153601.	7.8	43
42	Photonic quantum simulators: Mimicking condensed matter physics using photons. , 2011, , .		0
43	Correlations and thermalization in driven cavity arrays. , 2011, , .		1
44	A single-interaction step implementation of a quantum search in coupled micro-cavities. <i>Europhysics Letters</i> , 2010, 89, 20005.	2.0	8
45	Coherent control of long-distance steady-state entanglement in lossy resonator arrays. <i>Europhysics Letters</i> , 2010, 91, 10003.	2.0	17
46	Steady-state entanglement between hybrid light-matter qubits. <i>Europhysics Letters</i> , 2009, 85, 20007.	2.0	48
47	Heralded generation of entanglement with coupled cavities. <i>Physical Review A</i> , 2008, 78, .	2.5	71
48	Simulation of high-spin Heisenberg models in coupled cavities. <i>Physical Review A</i> , 2008, 78, .	2.5	47
49	Reproducing spin lattice models in strongly coupled atom-cavity systems. <i>Europhysics Letters</i> , 2008, 84, 20001.	2.0	44
50	Weaving light-matter qubits into a one way quantum computer. <i>New Journal of Physics</i> , 2008, 10, 023012.	2.9	20
51	Fractional Quantum Hall State in Coupled Cavities. <i>Physical Review Letters</i> , 2008, 101, 246809.	7.8	158
52	Photonic phase transitions, spin models, and QIP in coupled cavity arrays. , 2007, , .		1
53	Implementing Universal Quantum Gates in Coupled Cavities. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0
54	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.	2.1	15

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55	Transfer of a polaritonic qubit through a coupled cavity array. Journal of Modern Optics, 2007, 54, 2307-2314.	1.3	39
56	Photon-blockade-induced Mott transitions and $\langle X \rangle \langle Y \rangle$ spin models in coupled cavity arrays. Physical Review A, 2007, 76, .	2.5	497
57	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.	2.1	45
58	Coherent phenomena in photonic crystals. Physical Review A, 2001, 64, .	2.5	84
59	Verifying Atom Entanglement Schemes by Testing Bell's Inequality. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2001, 56, 27-34.	1.5	0
60	Transient properties of modified reservoir-induced transparency. Physical Review A, 2000, 61, .	2.5	41
61	Qubit-efficient encoding schemes for binary optimisation problems. Quantum - the Open Journal for Quantum Science, 0, 5, 454.	0.0	11