

# Enrique Leonidas Solano Villanueva

## List of Publications by Year in descending order

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263  
papers

14,818  
citations

19657

61  
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22832

112  
g-index

264  
all docs

264  
docs citations

264  
times ranked

6524  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum pattern recognition in photonic circuits. Quantum Science and Technology, 2022, 7, 015010.	5.8	2
2	Digitized-counterdiabatic quantum approximate optimization algorithm. Physical Review Research, 2022, 4, .	3.6	29
3	Adaptive random quantum eigensolver. Physical Review A, 2022, 105, .	2.5	0
4	Quantum Brain Networks: A Perspective. Electronics (Switzerland), 2022, 11, 1528.	3.1	2
5	Toward pricing financial derivatives with an IBM quantum computer. Physical Review Research, 2021, 3, .	3.6	31
6	Implementation of a Hybrid Classical-Quantum Annealing Algorithm for Logistic Network Design. SN Computer Science, 2021, 2, 1.	3.6	16
7	Shortcuts to Adiabaticity in Digitized Adiabatic Quantum Computing. Physical Review Applied, 2021, 15, .	3.8	53
8	Speeding up quantum perceptron via shortcuts to adiabaticity. Scientific Reports, 2021, 11, 5783.	3.3	14
9	Breaking adiabatic quantum control with deep learning. Physical Review A, 2021, 103, .	2.5	25
10	Experimental semi-autonomous eigensolver using reinforcement learning. Scientific Reports, 2021, 11, 12241.	3.3	2
11	Qubit motion as a microscopic model for the dynamical Casimir effect. Physical Review A, 2021, 103, .	2.5	5
12	Chiral states and nonreciprocal phases in a Josephson junction ring. Physical Review B, 2021, 103, .	3.2	3
13	One-Photon Solutions to the Multiqubit Multimode Quantum Rabi Model for Fast $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">W \rangle$ -State Generation. Physical Review Letters, 2021, 127, 043604.	7.8	17
14	Digitized adiabatic quantum factorization. Physical Review A, 2021, 104, .	2.5	14
15	Entangled quantum memristors. Physical Review A, 2021, 104, .	2.5	7
16	Perceptrons from memristors. Neural Networks, 2020, 122, 273-278.	5.9	16
17	Quantum computing cryptography: Finding cryptographic Boolean functions with quantum annealing by a 2000 qubit D-wave quantum computer. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126214.	2.1	16
18	Double quantum magnetometry at large static magnetic fields. Physical Review B, 2020, 101, .	3.2	6

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19	Probabilistic eigensolver with a trapped-ion quantum processor. <i>Physical Review A</i> , 2020, 101, .	2.5	4
20	Quantum Advantage in Cryptography with a Low-Connectivity Quantum Annealer. <i>Physical Review Applied</i> , 2020, 13, .	3.8	3
21	Measurement-Based Adaptation Protocol with Quantum Reinforcement Learning in a Rigetti Quantum Computer. <i>Quantum Reports</i> , 2020, 2, 293-304.	1.3	8
22	Hybrid Microwave-Radiation Patterns for High-Fidelity Quantum Gates with Trapped Ions. <i>Physical Review Applied</i> , 2020, 13, .	3.8	8
23	Quantum algorithm for solving linear differential equations: Theory and experiment. <i>Physical Review A</i> , 2020, 101, .	2.5	50
24	Selective interactions in the quantum Rabi model. <i>Physical Review A</i> , 2020, 101, .	2.5	22
25	Digital-analog quantum computation. <i>Physical Review A</i> , 2020, 101, .	2.5	44
26	Reinforcement learning for semi-autonomous approximate quantum eigensolver. <i>Machine Learning: Science and Technology</i> , 2020, 1, 015002.	5.0	14
27	Retrieving Quantum Information with Active Learning. <i>Physical Review Letters</i> , 2020, 124, 140504.	7.8	14
28	Digital-analog quantum algorithm for the quantum Fourier transform. <i>Physical Review Research</i> , 2020, 2, .	3.6	20
29	Enhanced connectivity of quantum hardware with digital-analog control. <i>Physical Review Research</i> , 2020, 2, .	3.6	10
30	Wehrl entropy production rate across a dynamical quantum phase transition. <i>Physical Review Research</i> , 2020, 2, .	3.6	7
31	Quantum Machine Learning and Bioinspired Quantum Technologies. <i>Advanced Quantum Technologies</i> , 2019, 2, 1900075.	3.9	5
32	Quantized Single-Ion-Channel Hodgkin-Huxley Model for Quantum Neurons. <i>Physical Review Applied</i> , 2019, 12, .	3.8	6
33	Experimental Implementation of a Quantum Autoencoder via Quantum Adders. <i>Advanced Quantum Technologies</i> , 2019, 2, 1800065.	3.9	22
34	Analog simulator of integro-differential equations with classical memristors. <i>Scientific Reports</i> , 2019, 9, 12928.	3.3	15
35	Canonical circuit quantization with linear nonreciprocal devices. <i>Physical Review B</i> , 2019, 99, .	3.2	15
36	Spin-Boson Model as A Simulator of Non-Markovian Multiphoton Jaynes-Cummings Models. <i>Symmetry</i> , 2019, 11, 695.	2.2	10

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37	Secure quantum remote state preparation of squeezed microwave states. Nature Communications, 2019, 10, 2604.	12.8	58
38	Creating lattice gauge potentials in circuit QED: The bosonic Creutz ladder. Physical Review A, 2019, 99, .	2.5	29
39	Entanglement through qubit motion and the dynamical Casimir effect. Physical Review A, 2019, 99, .	2.5	13
40	Parity-Assisted Generation of Nonclassical States of Light in Circuit Quantum Electrodynamics. Symmetry, 2019, 11, 372.	2.2	4
41	Quantum simulation of multiphoton and nonlinear dissipative spin-boson models. Physical Review A, 2019, 99, .	2.5	14
42	A continued fraction based approach for the Two-photon Quantum Rabi Model. Scientific Reports, 2019, 9, 4156.	3.3	16
43	Reconstruction of a Photonic Qubit State with Reinforcement Learning. Advanced Quantum Technologies, 2019, 2, 1800074.	3.9	48
44	Enhanced Quantum Synchronization via Quantum Machine Learning. Advanced Quantum Technologies, 2019, 2, 1800076.	3.9	10
45	Degree of Quantumness in Quantum Synchronization. Scientific Reports, 2019, 9, 19933.	3.3	18
46	Dynamics of an unbalanced two-ion crystal in a Penning trap for application in optical mass spectrometry. Physical Review A, 2019, 100, .	2.5	12
47	Selective hybrid spin interactions with low radiation power. Physical Review B, 2019, 99, .	3.2	2
48	Unified superradiant phase transitions. Physical Review A, 2019, 100, .	2.5	36
49	Publisher's Note: Convergence of the multimode quantum Rabi model of circuit quantum electrodynamics [Phys. Rev. B 95 , 245115 (2017)]. Physical Review B, 2019, 99, .	3.2	0
50	Modulated Continuous Wave Control for Energy-Efficient Electron-Nuclear Spin Coupling. Physical Review Letters, 2019, 122, 010407.	7.8	11
51	Quantum autoencoders via quantum adders with genetic algorithms. Quantum Science and Technology, 2019, 4, 014007.	5.8	42
52	Dirac Equation in ( $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" \rangle T_j \text{ETQq0 0 0 rgBT /Overlock 10 Tf 50 152 Td (disp}$ ) 2018, 120, 160403.	7.8	29
53	Nonlinear quantum Rabi model in trapped ions. Physical Review A, 2018, 97, .	2.5	39
54	Entanglement measures in embedding quantum simulators with nuclear spins. Physical Review A, 2018, 97, .	2.5	11

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55	Experimental quantum simulation of fermion-antifermion scattering via boson exchange in a trapped ion. Nature Communications, 2018, 9, 195.	12.8	21
56	Two-photon quantum Rabi model with superconducting circuits. Physical Review A, 2018, 97, .	2.5	97
57	Spin-1 models in the ultrastrong-coupling regime of circuit QED. Physical Review A, 2018, 97, .	2.5	9
58	Quantum Simulation of the Quantum Rabi Model in a Trapped Ion. Physical Review X, 2018, 8, .	8.9	84
59	One-way quantum computing in superconducting circuits. Physical Review A, 2018, 97, .	2.5	15
60	Kolmogorov-Sinai entropy and dissipation in driven classical Hamiltonian systems. Physical Review E, 2018, 98, .	2.1	0
61	Challenges in Open-air Microwave Quantum Communication and Sensing. , 2018, , .		15
62	Quantum-classical computation of Schwinger model dynamics using quantum computers. Physical Review A, 2018, 98, .	2.5	270
63	Digital-analog quantum simulations with superconducting circuits. Advances in Physics: X, 2018, 3, 1457981.	4.1	43
64	Quantum Artificial Life in an IBM Quantum Computer. Scientific Reports, 2018, 8, 14793.	3.3	48
65	Measurement-based adaptation protocol with quantum reinforcement learning. Physical Review A, 2018, 98, .	2.5	46
66	Cooling of many-body systems via selective interactions. Physical Review A, 2018, 98, .	2.5	17
67	Invited Article: Quantum memristors in quantum photonics. APL Photonics, 2018, 3, 080801.	5.7	28
68	Multiqubit and multilevel quantum reinforcement learning with quantum technologies. PLoS ONE, 2018, 13, e0200455.	2.5	25
69	Motional studies of one and two laser-cooled trapped ions for electric-field sensing applications. Journal of Modern Optics, 2018, 65, 613-621.	1.3	4
70	Quantum networks in divergence-free circuit QED. Quantum Science and Technology, 2018, 3, 024012.	5.8	31
71	Finite-time quantum entanglement in propagating squeezed microwaves. Scientific Reports, 2018, 8, 6416.	3.3	25
72	Pulsed dynamical decoupling for fast and robust two-qubit gates on trapped ions. Physical Review A, 2018, 97, .	2.5	20

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73	Quantum Estimation Methods for Quantum Illumination. <i>Physical Review Letters</i> , 2017, 118, 070803.	7.8	83
74	Algorithmic quantum simulation of memory effects. <i>Physical Review A</i> , 2017, 95, .	2.5	7
75	Quantum Memristors with Superconducting Circuits. <i>Scientific Reports</i> , 2017, 7, 42044.	3.3	46
76	Advanced-Retarded Differential Equations in Quantum Photonic Systems. <i>Scientific Reports</i> , 2017, 7, 42933.	3.3	10
77	Entanglement classification with algebraic geometry. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 195303.	2.1	11
78	A Study on Fast Gates for Large-Scale Quantum Simulation with Trapped Ions. <i>Scientific Reports</i> , 2017, 7, 46197.	3.3	14
79	Dark-like states for the multi-qubit and multi-photon Rabi models. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 174003.	2.1	17
80	Entanglement of superconducting qubits via acceleration radiation. <i>Scientific Reports</i> , 2017, 7, 657.	3.3	30
81	Supervised Quantum Learning without Measurements. <i>Scientific Reports</i> , 2017, 7, 13645.	3.3	38
82	Quantum illumination reveals phase-shift inducing cloaking. <i>Scientific Reports</i> , 2017, 7, 9333.	3.3	41
83	Quantum Rabi model in a superfluid Bose-Einstein condensate. <i>Physical Review A</i> , 2017, 96, .	2.5	8
84	Simulating superluminal physics with superconducting circuit technology. <i>Physical Review A</i> , 2017, 96, .	2.5	11
85	Measurement of linear response functions in Nuclear Magnetic Resonance. <i>Scientific Reports</i> , 2017, 7, 12797.	3.3	7
86	Switchable particle statistics with an embedding quantum simulator. <i>Physical Review A</i> , 2017, 95, .	2.5	4
87	A Single-Ion Reservoir as a High-Sensitive Sensor of Electric Signals. <i>Scientific Reports</i> , 2017, 7, 8336.	3.3	13
88	Dispersive Regimes of the Dicke Model. <i>Scientific Reports</i> , 2017, 7, 8774.	3.3	5
89	Spectral classification of coupling regimes in the quantum Rabi model. <i>Physical Review A</i> , 2017, 96, .	2.5	74
90	Protected State Transfer via an Approximate Quantum Adder. <i>Scientific Reports</i> , 2017, 7, 6964.	3.3	4

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91	Quantum Rabi model in the Brillouin zone with ultracold atoms. Physical Review A, 2017, 95, .	2.5	23
92	Quantum simulation of quantum channels in nuclear magnetic resonance. Physical Review A, 2017, 96, .	2.5	30
93	Convergence of the multimode quantum Rabi model of circuit quantum electrodynamics. Physical Review B, 2017, 95, .	3.2	44
94	Superradiant phase transition in the ultrastrong-coupling regime of the two-photon Dicke model. Physical Review A, 2017, 95, .	2.5	58
95	Digital Quantum Simulation of Minimal $AdS/CFT$ . Physical Review Letters, 2017, 119, 040501.	7.8	28
96	Entanglement classification with matrix product states. Scientific Reports, 2016, 6, 30188.	3.3	15
97	Artificial Life in Quantum Technologies. Scientific Reports, 2016, 6, 20956.	3.3	22
98	Broken selection rule in the quantum Rabi model. Scientific Reports, 2016, 6, 26720.	3.3	47
99	Digital-Analog Quantum Simulation of Spin Models in Trapped Ions. Scientific Reports, 2016, 6, 30534.	3.3	45
100	Digital quantum simulation of many-body non-Markovian dynamics. Physical Review A, 2016, 94, .	2.5	35
101	Beyond mean-field bistability in driven-dissipative lattices: Bunching-antibunching transition and quantum simulation. Physical Review A, 2016, 93, .	2.5	63
102	Entangling polaritons via dynamical Casimir effect in circuit quantum electrodynamics. Physical Review B, 2016, 93, .	3.2	43
103	Ultrastrong coupling in two-resonator circuit QED. Physical Review B, 2016, 93, .	3.2	80
104	Measuring Entanglement in a Photonic Embedding Quantum Simulator. Physical Review Letters, 2016, 116, 070503.	7.8	14
105	Genetic Algorithms for Digital Quantum Simulations. Physical Review Letters, 2016, 116, 230504.	7.8	40
106	Displacement of Propagating Squeezed Microwave States. Physical Review Letters, 2016, 117, 020502.	7.8	48
107	Quantum chemistry and charge transport in biomolecules with superconducting circuits. Scientific Reports, 2016, 6, 27836.	3.3	17
108	Semi-classical and quantum Rabi models: in celebration of 80 years. Journal of Physics A: Mathematical and Theoretical, 2016, 49, 300301.	2.1	97

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109	Quantum memristors. Scientific Reports, 2016, 6, 29507.	3.3	53
110	Tunable coupling of transmission-line microwave resonators mediated by an rf SQUID. EPJ Quantum Technology, 2016, 3, .	6.3	46
111	Few-qubit quantum-classical simulation of strongly correlated lattice fermions. EPJ Quantum Technology, 2016, 3, .	6.3	36
112	Digitized adiabatic quantum computing with a superconducting circuit. Nature, 2016, 534, 222-226.	27.8	339
113	Time and spatial parity operations with trapped ions. Physical Review A, 2015, 92, .	2.5	5
114	Tachyon physics with trapped ions. Physical Review A, 2015, 92, .	2.5	25
115	Spectral collapse via two-phonon interactions in trapped ions. Physical Review A, 2015, 92, .	2.5	92
116	Relativistic motion with superconducting qubits. Physical Review B, 2015, 92, .	3.2	48
117	Non-Abelian SU(2) Lattice Gauge Theories in Superconducting Circuits. Physical Review Letters, 2015, 115, 240502.	7.8	87
118	Digital Quantum Simulation of Spin Models with Circuit Quantum Electrodynamics. Physical Review X, 2015, 5, .	8.9	152
119	Quantum Emulation of Gravitational Waves. Scientific Reports, 2015, 5, 11538.	3.3	6
120	Quantum Simulator for Transport Phenomena in Fluid Flows. Scientific Reports, 2015, 5, 13153.	3.3	29
121	Quantum Rabi Model with Trapped Ions. Scientific Reports, 2015, 5, 15472.	3.3	124
122	Quantum teleportation of propagating quantum microwaves. EPJ Quantum Technology, 2015, 2, .	6.3	26
123	Quantum Simulation of Dissipative Processes without Reservoir Engineering. Scientific Reports, 2015, 5, 9981.	3.3	32
124	Tunable and switchable coupling between two superconducting resonators. Physical Review B, 2015, 91, .	3.2	55
125	Focus on cavity and circuit quantum electrodynamics in solids. New Journal of Physics, 2015, 17, 010201.	2.9	7
126	Scalable quantum memory in the ultrastrong coupling regime. Scientific Reports, 2015, 5, 8621.	3.3	62



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127	Fermion-Fermion Scattering in Quantum Field Theory with Superconducting Circuits. Physical Review Letters, 2015, 114, 070502.	7.8	71
128	Operational entanglement families of symmetric mixedN-qubit states. Physical Review A, 2015, 91, .	2.5	9
129	Fermionic models with superconducting circuits. EPJ Quantum Technology, 2015, 2, .	6.3	23
130	Digital quantum simulation of fermionic models with a superconducting circuit. Nature Communications, 2015, 6, 7654.	12.8	258
131	Parity-dependent State Engineering and Tomography in the ultrastrong coupling regime. Scientific Reports, 2015, 5, 11818.	3.3	33
132	The Forbidden Quantum Adder. Scientific Reports, 2015, 5, 11983.	3.3	28
133	Creation of quantum error correcting codes in the ultrastrong coupling regime. Physical Review B, 2015, 91, .	3.2	32
134	Time reversal and charge conjugation in an embedding quantum simulator. Nature Communications, 2015, 6, 7917.	12.8	29
135	Dynamical Casimir Effect Entangles Artificial Atoms. Physical Review Letters, 2014, 113, 093602.	7.8	141
136	Efficient Quantum Algorithm for Computing $\langle n \rangle$ - time Correlation Functions. Physical Review Letters, 2014, 113, 020505.	7.8	45
137	Entanglement measures in ion-trap quantum simulators without full tomography. Physical Review A, 2014, 90, .	2.5	9
138	Z2 quantum memory implemented on circuit quantum electrodynamics. , 2014, , .		4
139	Photon transfer in ultrastrongly coupled three-cavity arrays. Physical Review A, 2014, 89, .	2.5	43
140	Efficient quantum simulation of fermionic and bosonic models in trapped ions. EPJ Quantum Technology, 2014, 1, .	6.3	41
141	Dual-path methods for propagating quantum microwaves. New Journal of Physics, 2014, 16, 015001.	2.9	23
142	Digital Quantum Simulation of Spin Systems in Superconducting Circuits. Physical Review Letters, 2014, 112, .	7.8	85
143	Many-Body Interactions with Tunable-Coupling Transmon Qubits. Physical Review Letters, 2014, 113, 050501.	7.8	55
144	Biomimetic Cloning of Quantum Observables. Scientific Reports, 2014, 4, 4910.	3.3	22

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145	Digital Quantum Rabi and Dicke Models in Superconducting Circuits. <i>Scientific Reports</i> , 2014, 4, 7482.	3.3	90
146	From transistor to trapped-ion computers for quantum chemistry. <i>Scientific Reports</i> , 2014, 4, 3589.	3.3	172
147	Embedding Quantum Simulators for Quantum Computation of Entanglement. <i>Physical Review Letters</i> , 2013, 111, 240502.	7.8	21
148	Relativistic Quantum Teleportation with Superconducting Circuits. <i>Physical Review Letters</i> , 2013, 110, 113602.	7.8	97
149	Dynamical correlation functions and the quantum Rabi model. <i>Physical Review A</i> , 2013, 87, .	2.5	41
150	Quantum Simulation of Noncausal Kinematic Transformations. <i>Physical Review Letters</i> , 2013, 111, 090503.	7.8	16
151	Topological qubits with Majorana fermions in trapped ions. <i>New Journal of Physics</i> , 2013, 15, 033005.	2.9	10
152	Quantum simulations of relativistic quantum physics in circuit QED. <i>New Journal of Physics</i> , 2013, 15, 055008.	2.9	34
153	Squeezing with a flux-driven Josephson parametric amplifier. <i>New Journal of Physics</i> , 2013, 15, 125013.	2.9	89
154	Deterministic generation of arbitrary symmetric states and entanglement classes. <i>Physical Review A</i> , 2013, 87, .	2.5	16
155	Digital Quantum Simulation of the Holstein Model in Trapped Ions. <i>Physical Review Letters</i> , 2012, 109, 200501.	7.8	61
156	Ultrafast Quantum Gates in Circuit QED. <i>Physical Review Letters</i> , 2012, 108, 120501.	7.8	170
157	Quantum Simulation of Interacting Fermion Lattice Models in Trapped Ions. <i>Physical Review Letters</i> , 2012, 108, 190502.	7.8	98
158	Circuit quantum electrodynamics with a superconducting quantum point contact. <i>Physical Review B</i> , 2012, 85, .	3.2	13
159	The nonrelativistic limit of the Majorana equation and its simulation in trapped ions. <i>Physica Scripta</i> , 2012, T147, 014017.	2.5	7
160	Microwave photonics with Josephson junction arrays: Negative refraction index and entanglement through disorder. <i>Physical Review B</i> , 2012, 86, .	3.2	29
161	Path Entanglement of Continuous-Variable Quantum Microwaves. <i>Physical Review Letters</i> , 2012, 109, 250502.	7.8	132
162	Quantum Simulation of the Ultrastrong-Coupling Dynamics in Circuit Quantum Electrodynamics. <i>Physical Review X</i> , 2012, 2, .	8.9	104

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163	Multipartite entanglement generation assisted by inhomogeneous coupling. <i>Physical Review A</i> , 2012, 85, .	2.5	6
164	Validity of resonant two-qubit gates in the ultrastrong coupling regime of circuit quantum electrodynamics. <i>Physica Scripta</i> , 2012, T147, 014031.	2.5	6
165	Probing biological light-harvesting phenomena by optical cavities. <i>Physical Review B</i> , 2012, 85, .	3.2	28
166	Encoding relativistic potential dynamics into free evolution. <i>Physical Review A</i> , 2012, 85, .	2.5	5
167	Solvable model of dissipative dynamics in the deep strong coupling regime. <i>European Physical Journal: Special Topics</i> , 2012, 203, 207-216.	2.6	4
168	Quantum Simulation of the Majorana Equation and Unphysical Operations. <i>Physical Review X</i> , 2011, 1, .	8.9	48
169	Quantum Simulation of the Klein Paradox with Trapped Ions. <i>Physical Review Letters</i> , 2011, 106, 060503.	7.8	169
170	Approaching perfect microwave photodetection in circuit QED. <i>Physical Review A</i> , 2011, 84, .	2.5	85
171	Quantum simulation of relativistic quantum physics with trapped ions. <i>Journal of Physics: Conference Series</i> , 2011, 264, 012020.	0.4	3
172	Relativistic quantum mechanics with trapped ions. <i>New Journal of Physics</i> , 2011, 13, 095003.	2.9	64
173	Quantum Simulation of Quantum Field Theories in Trapped Ions. <i>Physical Review Letters</i> , 2011, 107, 260501.	7.8	72
174	Klein tunneling and Dirac potentials in trapped ions. <i>Physical Review A</i> , 2010, 82, .	2.5	74
175	Zeno physics in ultrastrong-coupling circuit QED. <i>Physical Review A</i> , 2010, 81, .	2.5	42
176	Quantum simulation of the Dirac equation. <i>Nature</i> , 2010, 463, 68-71.	27.8	599
177	Circuit quantum electrodynamics in the ultrastrong-coupling regime. <i>Nature Physics</i> , 2010, 6, 772-776.	16.7	1,086
178	Mesoscopic shelving readout of superconducting qubits in circuit quantum electrodynamics. <i>Physical Review B</i> , 2010, 81, .	3.2	9
179	Unitary expansion of the time evolution operator. <i>Physical Review A</i> , 2010, 82, .	2.5	12
180	Short-time-interaction quantum measurement through an incoherent mediator. <i>Physical Review A</i> , 2010, 81, .	2.5	2

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181	Entanglement equivalence of $\langle N \rangle$ -qubit symmetric states. Physical Review A, 2010, 81, .	2.5	60
182	Operational multipartite entanglement classes for symmetric photonic qubit states. Physical Review A, 2010, 81, .	2.5	16
183	Dual-Path State Reconstruction Scheme for Propagating Quantum Microwaves and Detector Noise Tomography. Physical Review Letters, 2010, 105, 100401.	7.8	75
184	Resonant quantum gates in circuit quantum electrodynamics. Physical Review B, 2010, 82, .	3.2	45
185	Observation of the Bloch-Siegert Shift in a Qubit-Oscillator System in the Ultrastrong Coupling Regime. Physical Review Letters, 2010, 105, 237001.	7.8	597
186	Dynamics of entanglement via propagating microwave photons. Physical Review B, 2010, 81, .	3.2	22
187	Realization of a Quantum Walk with One and Two Trapped Ions. Physical Review Letters, 2010, 104, 100503.	7.8	420
188	Two-resonator circuit quantum electrodynamics: Dissipative theory. Physical Review B, 2010, 81, .	3.2	49
189	Switchable Ultrastrong Coupling in Circuit QED. Physical Review Letters, 2010, 105, 023601.	7.8	149
190	Planck Spectroscopy and Quantum Noise of Microwave Beam Splitters. Physical Review Letters, 2010, 105, 133601.	7.8	61
191	Deep Strong Coupling Regime of the Jaynes-Cummings Model. Physical Review Letters, 2010, 105, 263603.	7.8	439
192	Heralded entanglement of arbitrary degree in remote qubits. Physical Review A, 2009, 80, .	2.5	4
193	Microwave Photon Detector in Circuit QED. Physical Review Letters, 2009, 102, 173602.	7.8	136
194	Operational Determination of Multiqubit Entanglement Classes via Tuning of Local Operations. Physical Review Letters, 2009, 102, 053601.	7.8	55
195	On the impossibility to perform a global unitary operation sequentially. , 2009, , .		0
196	Operational Families of Entanglement Classes for Symmetric $\langle N \rangle$ -Qubit States. Physical Review Letters, 2009, 103, 070503.	7.8	144
197	Quantum nondemolition photon detection in circuit QED and the quantum Zeno effect. Physical Review A, 2009, 79, .	2.5	60
198	Generation of total angular momentum eigenstates in remote qubits. Physical Review A, 2009, 79, .	2.5	15

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199	Cavity grid for scalable quantum computation with superconducting circuits. Europhysics Letters, 2009, 85, 50007.	2.0	75
200	Constrained optimization of sequentially generated entangled multiqubit states. Physical Review A, 2009, 80, .	2.5	11
201	Photodetection of propagating quantum microwaves in circuit QED. Physica Scripta, 2009, T137, 014004.	2.5	33
202	Two-photon probe of the Jaynes-Cummings model and controlled symmetry breaking in circuit QED. Nature Physics, 2008, 4, 686-691.	16.7	158
203	Two-resonator circuit quantum electrodynamics: A superconducting quantum switch. Physical Review B, 2008, 78, .	3.2	148
204	Sudden Birth versus Sudden Death of Entanglement in Multipartite Systems. Physical Review Letters, 2008, 101, 080503.	7.8	333
205	Monitoring atom-atom entanglement and decoherence in a solvable tripartite open system in cavity QED. Physical Review A, 2008, 77, .	2.5	22
206	Sequential Implementation of Global Quantum Operations. Physical Review Letters, 2008, 101, 180506.	7.8	24
207	Quantum simulation of Anderson and Kondo lattices with superconducting qubits. Physical Review B, 2008, 77, .	3.2	31
208	Quantum imaging with uncorrelated single photon sources. , 2008, , .		0
209	Quantum imaging with incoherent photons. , 2007, , .		0
210	Crossover from weak- to strong-coupling regime in dispersive circuit QED. Europhysics Letters, 2007, 80, 40011.	2.0	9
211	Effective quantum dynamics of interacting systems with inhomogeneous coupling. Physical Review A, 2007, 75, .	2.5	21
212	Sequential generation of matrix-product states in cavity QED. Physical Review A, 2007, 75, .	2.5	86
213	Noise-Free Measurement of Harmonic Oscillators with Instantaneous Interactions. Physical Review Letters, 2007, 98, 020401.	7.8	11
214	Selective control of the symmetric Dicke subspace in trapped ions. Physical Review A, 2007, 76, .	2.5	17
215	Sequential Quantum Cloning. Physical Review Letters, 2007, 98, 150502.	7.8	20
216	Quantum Imaging with Incoherent Photons. Physical Review Letters, 2007, 99, 133603.	7.8	60

#	ARTICLE	IF	CITATIONS
217	Mesoscopic Superposition States in Relativistic Landau Levels. <i>Physical Review Letters</i> , 2007, 99, 123602.	7.8	81
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