

# Juan Carlos Retamal

## List of Publications by Year in descending order

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71  
papers

1,735  
citations

361045

20  
h-index

288905

40  
g-index

71  
all docs

71  
docs citations

71  
times ranked

1192  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sudden Birth versus Sudden Death of Entanglement in Multipartite Systems. <i>Physical Review Letters</i> , 2008, 101, 080503.	2.9	333
2	Qutrit quantum computer with trapped ions. <i>Physical Review A</i> , 2003, 67, .	1.0	161
3	Dissonance is Required for Assisted Optimal State Discrimination. <i>Physical Review Letters</i> , 2011, 107, 080401.	2.9	105
4	Scaling Approach to the Magnetic Phase Diagram of Nanosized Systems. <i>Physical Review Letters</i> , 2002, 88, 237202.	2.9	100
5	Field Squeeze Operators in Optical Cavities with Atomic Ensembles. <i>Physical Review Letters</i> , 2006, 96, 010502.	2.9	88
6	Magnetic properties and thermodynamics in a metallic nanotube. <i>Journal of Magnetism and Magnetic Materials</i> , 2014, 355, 309-318.	1.0	51
7	Reconstruction of a Photonic Qubit State with Reinforcement Learning. <i>Advanced Quantum Technologies</i> , 2019, 2, 1800074.	1.8	48
8	Abrupt changes in the dynamics of quantum disentanglement. <i>Physical Review A</i> , 2007, 75, .	1.0	47
9	Measurement-based adaptation protocol with quantum reinforcement learning. <i>Physical Review A</i> , 2018, 98, .	1.0	46
10	Quantum cooperative effects in a micromaser. <i>Physical Review A</i> , 1994, 49, 2933-2937.	1.0	42
11	Direct measurement of concurrence for atomic two-qubit pure states. <i>Physical Review A</i> , 2007, 75, .	1.0	42
12	Role of quantum correlations in light-matter quantum heat engines. <i>Physical Review A</i> , 2017, 96, .	1.0	36
13	Preparation of a pure atomic state. <i>Physical Review A</i> , 1992, 45, 2118-2120.	1.0	30
14	Entanglement purification in cavity QED using local operations. <i>Physical Review A</i> , 2002, 65, .	1.0	29
15	Dynamics of entanglement transfer through multipartite dissipative systems. <i>Physical Review A</i> , 2010, 81, .	1.0	27
16	Generation of highly squeezed states in a two-photon micromaser. <i>Physical Review A</i> , 1992, 45, 6717-6720.	1.0	26
17	Quantum-state discrimination. <i>Physical Review A</i> , 2002, 66, .	1.0	26
18	Multiqubit and multilevel quantum reinforcement learning with quantum technologies. <i>PLoS ONE</i> , 2018, 13, e0200455.	1.1	25

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19	Effective quantum dynamics of interacting systems with inhomogeneous coupling. <i>Physical Review A</i> , 2007, 75, .	1.0	21
20	Manipulation of the RKKY exchange by voltages. <i>Physical Review B</i> , 2019, 100, .	1.1	21
21	Squeezing of light by a collection of atoms. <i>Physical Review A</i> , 1997, 55, 2413-2425.	1.0	20
22	Entanglement swapping via quantum state discrimination. <i>Physical Review A</i> , 2005, 71, .	1.0	20
23	Dissipation in collective interactions. <i>Physical Review A</i> , 1998, 58, 4078-4086.	1.0	19
24	Entanglement properties in the inhomogeneous Tavis-Cummings model. <i>Physical Review A</i> , 2007, 75, .	1.0	19
25	Stability of quantum states under dissipation. <i>Physical Review A</i> , 2001, 63, .	1.0	18
26	Trapping states in a three-level $\hat{\rho}$ system. <i>Physical Review A</i> , 1992, 45, 1876-1880.	1.0	17
27	Selective control of the symmetric Dicke subspace in trapped ions. <i>Physical Review A</i> , 2007, 76, .	1.0	17
28	Entanglement of formation for a family of $(2^d - d)$ -dimensional systems. <i>Physical Review A</i> , 2012, 85, .	1.0	17
29	Generation of nonclassical states of the center-of-mass motion of ions by dispersive coupling. <i>Physical Review A</i> , 1997, 55, 2387-2396.	1.0	16
30	Deterministic generation of arbitrary symmetric states and entanglement classes. <i>Physical Review A</i> , 2013, 87, .	1.0	16
31	Magnetic behavior of nanoparticles in patterned thin films. <i>Applied Physics Letters</i> , 2003, 82, 3478-3480.	1.5	15
32	One-way quantum computing in superconducting circuits. <i>Physical Review A</i> , 2018, 97, .	1.0	15
33	Superposition of coherent states and squeezing. <i>Physical Review Letters</i> , 1992, 68, 3815-3815.	2.9	13
34	Macroscopic field superpositions from collective interactions. <i>Physical Review A</i> , 1998, 58, 655-662.	1.0	13
35	Photon number noise reduction in a two-photon micromaser. <i>Optics Communications</i> , 1990, 79, 455-458.	1.0	12
36	Supersymmetry and large-N limit in a zero-dimensional two-matrix model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1989, 222, 429-432.	1.5	11

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37	Strong intracavity and output laser noise reduction via initial atomic coherence. Physical Review A, 1997, 55, 3802-3812.	1.0	11
38	Ultracold atoms interacting with a sinusoidal mode of a high Q cavity. Optics Communications, 1998, 154, 28-34.	1.0	11
39	Quantum Mechanical Engine for the Quantum Rabi Model. Entropy, 2018, 20, 767.	1.1	11
40	Single observable concurrence measurement without simultaneous copies. Physical Review A, 2006, 74, .	1.0	10
41	Quantum information and entanglement transfer for qutrits. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 370, 22-27.	0.9	10
42	Enhanced Quantum Synchronization via Quantum Machine Learning. Advanced Quantum Technologies, 2019, 2, 1800076.	1.8	10
43	Spin-1 models in the ultrastrong-coupling regime of circuit QED. Physical Review A, 2018, 97, .	1.0	9
44	An algebraic approach to the Jaynes-Cummings model with dissipation. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 211, 143-147.	0.9	8
45	Bound states in the continuum in whispering gallery resonators. Physical Review A, 2018, 98, .	1.0	8
46	Reduction of photon-number fluctuations in two-photon lasers. Physical Review A, 1991, 43, 6209-6216.	1.0	7
47	Realization of atomic Greenberger-Horne-Zeilinger states via cavity quantum electrodynamics. Journal of Modern Optics, 1999, 46, 295-302.	0.6	7
48	Simulated annealing and entanglement of formation for mixed states. Physical Review A, 2015, 92, .		
49	Multipartite entanglement generation assisted by inhomogeneous coupling. Physical Review A, 2012, 85, .	1.0	6
50	Effect of finite atomic lifetimes on the generation of nonclassical states in micromasers. Physical Review A, 1993, 47, 620-625.	1.0	5
51	Entangled coherent states under dissipation. Optics Communications, 2010, 283, 3825-3829.	1.0	5
52	Superconducting circuit architecture for digital-analog quantum computing. EPJ Quantum Technology, 2022, 9, .	2.9	5
53	Incoherent-mediator for quantum state transfer in the ultrastrong coupling regime. Scientific Reports, 2017, 7, 4157.	1.6	4
54	Parity-Assisted Generation of Nonclassical States of Light in Circuit Quantum Electrodynamics. Symmetry, 2019, 11, 372.	1.1	4

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55	Sudden Transition between Classical to Quantum Decoherence in bipartite correlated Qutrit Systems. Scientific Reports, 2017, 7, 44654.	1.6	4
56	Enhanced transient squeezing in a kicked Jaynes-Cummings model. Physical Review A, 1994, 50, 1867-1870.	1.0	3
57	On the atomic microscope. Quantum and Semiclassical Optics: Journal of the European Optical Society Part B, 1995, 7, 455-459.	1.0	3
58	Generation of higher dimensional entangled states in quantum Rabi systems. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 184001.	0.7	3
59	Generation of maximally correlated states of $(d \hat{=} d)$ -dimensional systems in the absence of entanglement. Europhysics Letters, 2017, 120, 10003.	0.7	3
60	Metastable decoherence-free subspace and pointer states in mesoscopic quantum systems. Physical Review A, 2018, 97, .	1.0	3
61	Phase-shift control of the exchange coupling between magnetic impurities. Nanotechnology, 2020, 31, 355002.	1.3	3
62	Photon statistics in the polarization CEL. Optics Communications, 1991, 84, 42-46.	1.0	2
63	Diffusion processes associated to a laser model. Journal of Mathematical Physics, 1992, 33, 826-831.	0.5	2
64	Entanglement rate in qubits. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 323, 382-388.	0.9	2
65	Photon-number-limiting device for nonclassical light generation. Physical Review A, 2006, 73, .	1.0	2
66	Short-time-interaction quantum measurement through an incoherent mediator. Physical Review A, 2010, 81, .	1.0	2
67	Nonlinear features of a micromaser in the semiclassical limit. Physical Review A, 1993, 48, 2482-2485.	1.0	1
68	Atom-field entanglement at the collapse region. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 355, 7-11.	0.9	1
69	Concurrence in the inhomogeneous Tavis-Cummings model. Journal of Physics: Conference Series, 2007, 84, 012013.	0.3	1
70	Regularizing divergences in the von Neumann entropy. Journal of Mathematical Physics, 2002, 43, 866-871.	0.5	0
71	Entanglement evolution of bipartite $n$ -dimensional systems. Journal of Physics: Conference Series, 2007, 84, 012011.	0.3	0