Juan Carlos Retamal

List of Publications by Year
in descending order

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	Superconducting circuit architecture for digital-analog quantum computing. EPJ Quantum Technology, 2022, 9, .	2.9	5
2	Phase-shift control of the exchange coupling between magnetic impurities. Nanotechnology, 2020, 31, 355002.	1.3	3
3	Manipulation of the RKKY exchange by voltages. Physical Review B, 2019, 100, .	1.1	21
4	Parity-Assisted Generation of Nonclassical States of Light in Circuit Quantum Electrodynamics. Symmetry, 2019, 11, 372.	1.1	4
5	Reconstruction of a Photonic Qubit State with Reinforcement Learning. Advanced Quantum Technologies, 2019, 2, 1800074.	1.8	48
6	Enhanced Quantum Synchronization via Quantum Machine Learning. Advanced Quantum Technologies, 2019, 2, 1800076.	1.8	10
7	Spin-1 models in the ultrastrong-coupling regime of circuit QED. Physical Review A, 2018, 97, .	1.0	9
8	Metastable decoherence-free subspace and pointer states in mesoscopic quantum systems. Physical Review A, 2018, 97, .	1.0	3
9	One-way quantum computing in superconducting circuits. Physical Review A, 2018, 97, .	1.0	15
10	Quantum Mechanical Engine for the Quantum Rabi Model. Entropy, 2018, 20, 767.	1.1	11
11	Measurement-based adaptation protocol with quantum reinforcement learning. Physical Review A, 2018, 98, .	1.0	46
12	Multiqubit and multilevel quantum reinforcement learning with quantum technologies. PLoS ONE, 2018, 13, e0200455.	1.1	25
13	Bound states in the continuum in whispering gallery resonators. Physical Review A, 2018, 98, .	1.0	8
14	Generation of higher dimensional entangled states in quantum Rabi systems. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 184001.	0.7	3
15	Role of quantum correlations in light-matter quantum heat engines. Physical Review A, 2017, 96, .	1.0	36
16	Incoherent-mediator for quantum state transfer in the ultrastrong coupling regime. Scientific Reports, 2017, 7, 4157.	1.6	4
17	Generation of maximally correlated states of (d âŠ— d)-dimensional systems in the absence of entanglement. Europhysics Letters, 2017, 120, 10003.	0.7	3
18	Sudden Transition between Classical to Quantum Decoherence in bipartite correlated Qutrit Systems. Scientific Reports, 2017, 7, 44654.	1.6	4

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19	Simulated annealing and entanglement of formation for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo>(</mml:mo><mml:mi>n</mml:mi><mml:mo>âŠ—</mml:mo><mml:mi>m</mml:mi><mml:mo>)</mml:mo></mml:mrow></mml:math> mixed states. Physical Review A, 2015, 92, .	1.0	0
20	Magnetic properties and thermodynamics in a metallic nanotube. Journal of Magnetism and Magnetic Materials, 2014, 355, 309-318.	1.0	51
21	Deterministic generation of arbitrary symmetric states and entanglement classes. Physical Review A, 2013, 87, .	1.0	16
22	Multipartite entanglement generation assisted by inhomogeneous coupling. Physical Review A, 2012, 85, .	1.0	6
23	Entanglement of formation for a family of(2âŠ—d)-dimensional systems. Physical Review A, 2012, 85, .	1.0	17
24	Dissonance is Required for Assisted Optimal State Discrimination. Physical Review Letters, 2011, 107, 080401.	2.9	105
25	Entangled coherent states under dissipation. Optics Communications, 2010, 283, 3825-3829.	1.0	5
26	Short-time-interaction quantum measurement through an incoherent mediator. Physical Review A, 2010, 81, .	1.0	2
27	Dynamics of entanglement transfer through multipartite dissipative systems. Physical Review A, 2010, 81, .	1.0	27
28	Sudden Birth versus Sudden Death of Entanglement in Multipartite Systems. Physical Review Letters, 2008, 101, 080503.	2.9	333
29	Effective quantum dynamics of interacting systems with inhomogeneous coupling. Physical Review A, 2007, 75, .	1.0	21
30	Abrupt changes in the dynamics of quantum disentanglement. Physical Review A, 2007, 75, .	1.0	47
31	Selective control of the symmetric Dicke subspace in trapped ions. Physical Review A, 2007, 76, .	1.0	17
32	Entanglement properties in the inhomogeneous Tavis-Cummings model. Physical Review A, 2007, 75, .	1.0	19
33	Direct measurement of concurrence for atomic two-qubit pure states. Physical Review A, 2007, 75, .	1.0	42
34	Entanglement evolution of bipartitemâŠ—n-dimensional systems. Journal of Physics: Conference Series, 2007, 84, 012011.	0.3	0
35	Concurrence in the inhomogeneous Tavis-Cummings model. Journal of Physics: Conference Series, 2007, 84, 012013.	0.3	1
36	Quantum information and entanglement transfer for qutrits. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 370, 22-27.	0.9	10

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37	Atomâ€“field entanglement at the collapse region. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 355, 7-11.	0.9	1
38	Photon-number-limiting device for nonclassical light generation. Physical Review A, 2006, 73, .	1.0	2
39	Field Squeeze Operators in Optical Cavities with Atomic Ensembles. Physical Review Letters, 2006, 96, 010502.	2.9	88
40	Single observable concurrence measurement without simultaneous copies. Physical Review A, 2006, 74, .	1.0	10
41	Entanglement swapping via quantum state discrimination. Physical Review A, 2005, 71, .	1.0	20
42	Entanglement rate in qubits. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 323, 382-388.	0.9	2
43	Magnetic behavior of nanoparticles in patterned thin films. Applied Physics Letters, 2003, 82, 3478-3480.	1.5	15
44	Qutrit quantum computer with trapped ions. Physical Review A, 2003, 67, .	1.0	161
45	Quantum-state discrimination. Physical Review A, 2002, 66, .	1.0	26
46	Regularizing divergences in the von Neumann entropy. Journal of Mathematical Physics, 2002, 43, 866-871.	0.5	0
47	Scaling Approach to the Magnetic Phase Diagram of Nanosized Systems. Physical Review Letters, 2002, 88, 237202.	2.9	100
48	Entanglement purification in cavity QED using local operations. Physical Review A, 2002, 65, .	1.0	29
49	Stability of quantum states under dissipation. Physical Review A, 2001, 63, .	1.0	18
50	Realization of atomic Greenbergerâ€”Horneâ€”Zeilinger states via cavity quantum electrodynamics. Journal of Modern Optics, 1999, 46, 295-302.	0.6	7
51	Ultracold atoms interacting with a sinusoidal mode of a high Q cavity. Optics Communications, 1998, 154, 28-34.	1.0	11
52	Macroscopic field superpositions from collective interactions. Physical Review A, 1998, 58, 655-662.	1.0	13
53	Dissipation in collective interactions. Physical Review A, 1998, 58, 4078-4086.	1.0	19
54	Generation of nonclassical states of the center-of-mass motion of ions by dispersive coupling. Physical Review A, 1997, 55, 2387-2396.	1.0	16

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55	Squeezing of light by a collection of atoms. Physical Review A, 1997, 55, 2413-2425.	1.0	20
56	Strong intracavity and output laser noise reduction via initial atomic coherence. Physical Review A, 1997, 55, 3802-3812.	1.0	11
57	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
58	On the atomic microscope. Quantum and Semiclassical Optics: Journal of the European Optical Society Part B, 1995, 7, 455-459.	1.0	3
59	Enhanced transient squeezing in a kicked Jaynes-Cummings model. Physical Review A, 1994, 50, 1867-1870.	1.0	3
60	Quantum cooperative effects in a micromaser. Physical Review A, 1994, 49, 2933-2937.	1.0	42
61	Nonlinear features of a micromaser in the semiclassical limit. Physical Review A, 1993, 48, 2482-2485.	1.0	1
62	Effect of finite atomic lifetimes on the generation of nonclassical states in micromasers. Physical Review A, 1993, 47, 620-625.	1.0	5
63	Superposition of coherent states and squeezing. Physical Review Letters, 1992, 68, 3815-3815.	2.9	13
64	Preparation of a pure atomic state. Physical Review A, 1992, 45, 2118-2120.	1.0	30
65	Trapping states in a three-level Î› system. Physical Review A, 1992, 45, 1876-1880.	1.0	17
66	Generation of highly squeezed states in a two-photon micromaser. Physical Review A, 1992, 45, 6717-6720.	1.0	26
67	Diffusion processes associated to a laser model. Journal of Mathematical Physics, 1992, 33, 826-831.	0.5	2
68	Reduction of photon-number fluctuations in two-photon lasers. Physical Review A, 1991, 43, 6209-6216.	1.0	7
69	Photon statistics in the polarization CEL. Optics Communications, 1991, 84, 42-46.	1.0	2
70	Photon number noise reduction in a two-photon micromaser. Optics Communications, 1990, 79, 455-458.	1.0	12
71	Supersymmetry and large-N limit in a zero-dimensional two-matrix model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 222, 429-432.	1.5	11