

Daniel Alonso

List of Publications by Year in descending order

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57
papers

2,707
citations

257101

24
h-index

174990

52
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57
all docs

57
docs citations

57
times ranked

1894
citing authors

#	ARTICLE	IF	CITATIONS
1	Benchmarking quantum annealing dynamics: The spin-vector Langevin model. <i>Physical Review Research</i> , 2022, 4, .	1.3	5
2	Spatial configurations and temperature profiles in nonequilibrium steady state of two-species trapped ion systems. <i>Physical Review E</i> , 2020, 101, 012129.	0.8	2
3	Three-qubit refrigerator with two-body interactions. <i>Physical Review E</i> , 2020, 101, 012109.	0.8	27
4	Delocalization and heat transport in multidimensional trapped ion systems. <i>Physical Review E</i> , 2019, 99, 062105.	0.8	5
5	Classical emulation of quantum-coherent thermal machines. <i>Physical Review E</i> , 2019, 99, 062102.	0.8	16
6	From quantum to classical by numbers. <i>New Journal of Physics</i> , 2019, 21, 123031.	1.2	2
7	Dynamics of non-Markovian open quantum systems. <i>Reviews of Modern Physics</i> , 2017, 89, .	16.4	745
8	Testing the Validity of the "Local" and "Global" GKLS Master Equations on an Exactly Solvable Model. <i>Open Systems and Information Dynamics</i> , 2017, 24, 1740010.	0.5	129
9	Relation between topology and heat currents in multilevel absorption machines. <i>New Journal of Physics</i> , 2017, 19, 113037.	1.2	12
10	Performance of Continuous Quantum Thermal Devices Indirectly Connected to Environments. <i>Entropy</i> , 2016, 18, 166.	1.1	4
11	$2\text{CaO}\cdot\text{Al}_2\text{O}_3:\text{Er}^{3+}$ glass: An efficient optical temperature sensor. <i>Journal of Luminescence</i> , 2016, 179, 272-279.	1.5	54
12	Efficiency of Inefficient Endoreversible Thermal Machines. <i>Brazilian Journal of Physics</i> , 2016, 46, 282-287.	0.7	9
13	Quantum correlations and energy currents across three dissipative oscillators. <i>Physical Review E</i> , 2015, 91, 062123.	0.8	15
14	Internal dissipation and heat leaks in quantum thermodynamic cycles. <i>Physical Review E</i> , 2015, 92, 032136.	0.8	42
15	Temperature dependence of the whispering gallery modes obtained in a glass microsphere codoped with Er^{3+} and Yb^{3+} ions. <i>Sensors and Actuators A: Physical</i> , 2015, 233, 422-426.	2.0	13
16	Optimal performance of endoreversible quantum refrigerators. <i>Physical Review E</i> , 2014, 90, 062124.	0.8	48
17	Tuning heat transport in trapped-ion chains across a structural phase transition. <i>Physical Review B</i> , 2014, 89, .	1.1	27
18	Quantum decoherence of an anharmonic oscillator monitored by a Bose-Einstein condensate. <i>Physical Review A</i> , 2014, 90, .	1.0	2

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19	Quantum-enhanced absorption refrigerators. <i>Scientific Reports</i> , 2014, 4, 3949.	1.6	215
20	Gaussian tripartite entanglement out of equilibrium. <i>Physical Review A</i> , 2013, 88, .	1.0	15
21	Gaussian entanglement induced by an extended thermal environment. <i>Physical Review A</i> , 2013, 88, .	1.0	15
22	Path planning approach based on flock dynamics of moving particles. <i>Applied Soft Computing Journal</i> , 2013, 13, 2159-2170.	4.1	7
23	Fast and robust population transfer in two-level quantum systems with dephasing noise and/or systematic frequency errors. <i>Physical Review A</i> , 2013, 88, .	1.0	73
24	Performance bound for quantum absorption refrigerators. <i>Physical Review E</i> , 2013, 87, 042131.	0.8	147
25	Optimally robust shortcuts to population inversion in two-level quantum systems. <i>New Journal of Physics</i> , 2012, 14, 093040.	1.2	287
26	Asymptotic discord and entanglement of nonresonant harmonic oscillators under weak and strong dissipation. <i>Physical Review A</i> , 2012, 86, .	1.0	31
27	Whispering-gallery modes in glass microspheres: optimization of pumping in a modified confocal microscope. <i>Optics Letters</i> , 2011, 36, 615.	1.7	26
28	Decoherence of a quantum harmonic oscillator monitored by a Bose-Einstein condensate. <i>Physical Review A</i> , 2011, 84, .	1.0	5
29	Dynamics of time correlation functions and stochastic quantum trajectories methods in Non-Markovian systems. , 2010, , .		0
30	Scattering of photons in a two fixed extreme Reissner-Nordstrom black hole system. , 2010, , .		0
31	Entanglement in a continuously measured two-level system coupled to a harmonic oscillator. <i>Physical Review A</i> , 2009, 79, .	1.0	1
32	Timescales in Quantum Open Systems: Dynamics of Time Correlation Functions and Stochastic Quantum Trajectory Methods in Non-Markovian Systems. <i>Lecture Notes in Physics</i> , 2009, , 277-301.	0.3	2
33	Emission spectra of atoms with non-Markovian interaction: Fluorescence in a photonic crystal. <i>Physical Review A</i> , 2008, 77, .	1.0	24
34	Escape of photons from two fixed extreme Reissner-Nordstr�m black holes. <i>Physical Review D</i> , 2008, 78, .	1.6	8
35	Quantum Clocks and Stopwatches. , 2008, , 235-278.		3
36	Hierarchy of equations of multiple-time correlation functions. <i>Physical Review A</i> , 2007, 75, .	1.0	27

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37	New Ways of Understanding Semiclassical Quantization. <i>Advances in Chemical Physics</i> , 2007, , 105-364.	0.3	21
38	Dynamics of fluctuations in non-Markovian systems. <i>Comptes Rendus Physique</i> , 2007, 8, 684-695.	0.3	2
39	Non-Markovian reduced propagator, multiple-time correlation functions, and master equations with general initial conditions in the weak-coupling limit. <i>Physical Review A</i> , 2006, 73, .	1.0	41
40	General N-box problem. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 359, 416-423.	0.9	5
41	Two-level system immersed in a photonic band-gap material: A non-Markovian stochastic Schrödinger-equation approach. <i>Physical Review A</i> , 2005, 71, .	1.0	61
42	Non-Markovian stochastic Schrödinger equations in different temperature regimes: A study of the spin-boson model. <i>Journal of Chemical Physics</i> , 2005, 122, 124106.	1.2	38
43	Multiple-Time Correlation Functions for Non-Markovian Interaction: Beyond the Quantum Regression Theorem. <i>Physical Review Letters</i> , 2005, 94, 200403.	2.9	49
44	Theoretical analysis of the photon avalanche dynamics in Ho ³⁺ -Yb ³⁺ codoped systems under near-infrared excitation. <i>Physical Review B</i> , 2005, 71, .	1.1	17
45	Action scales for quantum decoherence and their relation to structures in phase space. <i>Physical Review A</i> , 2004, 69, .	1.0	4
46	Non-Markovian stochastic dynamics of a two level system immersed in a PBC material. , 2004, , .		0
47	Transport in polygonal billiards. <i>Physica D: Nonlinear Phenomena</i> , 2004, 187, 184-199.	1.3	28
48	Quantum time-of-flight measurements: Kicked clock versus continuous clock. <i>Physical Review A</i> , 2003, 67, .	1.0	17
49	Polygonal billiards and transport: Diffusion and heat conduction. <i>Physical Review E</i> , 2002, 66, 066131.	0.8	53
50	Phantoms of regularity in the sea of quantum chaos. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2001, 9, 554-559.	1.3	3
51	Heat Conductivity and Dynamical Instability. <i>Physical Review Letters</i> , 1999, 82, 1859-1862.	2.9	109
52	Quantum chaos, random matrix theory, statistical mechanics in two dimensions, and the second law - a case study. <i>Journal of Physics A</i> , 1997, 30, 4993-5005.	1.6	20
53	From random matrix theory to statistical mechanics - anyon gas. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 387, 812-816.	1.5	19
54	Role of the edge orbits in the semiclassical quantization of the stadium billiard. <i>Journal of Physics A</i> , 1994, 27, 1599-1607.	1.6	27

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55	Chaotic scattering on C_4v four-disk billiards: Semiclassical and exact quantum theories. Physical Review E, 1994, 50, 2591-2596.	0.8	20
56	As expansion for the periodic-orbit quantization of hyperbolic systems. Physical Review A, 1993, 47, R3468-R3471.	1.0	62
57	Ruelle classical resonances and dynamical chaos: The three- and four-disk scatterers. Physical Review A, 1992, 45, 8383-8397.	1.0	68