

# Daniel Alonso

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6927324/publications.pdf>

Version: 2024-02-01

57  
papers

2,707  
citations

257450  
24  
h-index

175258  
52  
g-index

57  
all docs

57  
docs citations

57  
times ranked

1894  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of non-Markovian open quantum systems. Reviews of Modern Physics, 2017, 89, .	45.6	745
2	Optimally robust shortcuts to population inversion in two-level quantum systems. New Journal of Physics, 2012, 14, 093040.	2.9	287
3	Quantum-enhanced absorption refrigerators. Scientific Reports, 2014, 4, 3949.	3.3	215
4	Performance bound for quantum absorption refrigerators. Physical Review E, 2013, 87, 042131.	2.1	147
5	Testing the Validity of the "Local"™ and "Global"™ GKLS Master Equations on an Exactly Solvable Model. Open Systems and Information Dynamics, 2017, 24, 1740010.	1.2	129
6	Heat Conductivity and Dynamical Instability. Physical Review Letters, 1999, 82, 1859-1862.	7.8	109
7	Fast and robust population transfer in two-level quantum systems with dephasing noise and/or systematic frequency errors. Physical Review A, 2013, 88, .	2.5	73
8	Ruelle classical resonances and dynamical chaos: The three- and four-disk scatterers. Physical Review A, 1992, 45, 8383-8397.	2.5	68
9	As expansion for the periodic-orbit quantization of hyperbolic systems. Physical Review A, 1993, 47, R3468-R3471.	2.5	62
10	Two-level system immersed in a photonic band-gap material: A non-Markovian stochastic Schrödinger-equation approach. Physical Review A, 2005, 71, .	2.5	61
11	2CaO-Al <sub>2</sub> O <sub>3</sub> :Er <sup>3+</sup> glass: An efficient optical temperature sensor. Journal of Luminescence, 2016, 179, 272-279.	3.1	54
12	Polygonal billiards and transport: Diffusion and heat conduction. Physical Review E, 2002, 66, 066131.	2.1	53
13	Multiple-Time Correlation Functions for Non-Markovian Interaction: Beyond the Quantum Regression Theorem. Physical Review Letters, 2005, 94, 200403.	7.8	49
14	Optimal performance of endoreversible quantum refrigerators. Physical Review E, 2014, 90, 062124.	2.1	48
15	Internal dissipation and heat leaks in quantum thermodynamic cycles. Physical Review E, 2015, 92, 032136.	2.1	42
16	Non-Markovian reduced propagator, multiple-time correlation functions, and master equations with general initial conditions in the weak-coupling limit. Physical Review A, 2006, 73, .	2.5	41
17	Non-Markovian stochastic Schrödinger equations in different temperature regimes: A study of the spin-boson model. Journal of Chemical Physics, 2005, 122, 124106.	3.0	38
18	Asymptotic discord and entanglement of nonresonant harmonic oscillators under weak and strong dissipation. Physical Review A, 2012, 86, .	2.5	31

#	ARTICLE	IF	CITATIONS
19	Transport in polygonal billiards. Physica D: Nonlinear Phenomena, 2004, 187, 184-199.	2.8	28
20	Role of the edge orbits in the semiclassical quantization of the stadium billiard. Journal of Physics A, 1994, 27, 1599-1607.	1.6	27
21	Hierarchy of equations of multiple-time correlation functions. Physical Review A, 2007, 75, .	2.5	27
22	Tuning heat transport in trapped-ion chains across a structural phase transition. Physical Review B, 2014, 89, .	3.2	27
23	Three-qubit refrigerator with two-body interactions. Physical Review E, 2020, 101, 012109.	2.1	27
24	Whispering-gallery modes in glass microspheres: optimization of pumping in a modified confocal microscope. Optics Letters, 2011, 36, 615.	3.3	26
25	Emission spectra of atoms with non-Markovian interaction: Fluorescence in a photonic crystal. Physical Review A, 2008, 77, .	2.5	24
26	New Ways of Understanding Semiclassical Quantization. Advances in Chemical Physics, 2007, , 105-364.	0.3	21
27	Chaotic scattering on C <sub>4</sub> v four-disk billiards: Semiclassical and exact quantum theories. Physical Review E, 1994, 50, 2591-2596.	2.1	20
28	Quantum chaos, random matrix theory, statistical mechanics in two dimensions, and the second law - a case study. Journal of Physics A, 1997, 30, 4993-5005.	1.6	20
29	From random matrix theory to statistical mechanics - anyon gas. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 387, 812-816.	4.1	19
30	Quantum time-of-flight measurements: Kicked clock versus continuous clock. Physical Review A, 2003, 67, .	2.5	17
31	Theoretical analysis of the photon avalanche dynamics in Ho <sup>3+</sup> -Yb <sup>3+</sup> codoped systems under near-infrared excitation. Physical Review B, 2005, 71, .	3.2	17
32	Classical emulation of quantum-coherent thermal machines. Physical Review E, 2019, 99, 062102.	2.1	16
33	Gaussian tripartite entanglement out of equilibrium. Physical Review A, 2013, 88, .	2.5	15
34	Gaussian entanglement induced by an extended thermal environment. Physical Review A, 2013, 88, .	2.5	15
35	Quantum correlations and energy currents across three dissipative oscillators. Physical Review E, 2015, 91, 062123.	2.1	15
36	Temperature dependence of the whispering gallery modes obtained in a glass microsphere codoped with Er <sup>3+</sup> -Yb <sup>3+</sup> ions. Sensors and Actuators A: Physical, 2015, 233, 422-426.	4.1	13

#	ARTICLE	IF	CITATIONS
37	Relation between topology and heat currents in multilevel absorption machines. New Journal of Physics, 2017, 19, 113037.	2.9	12
38	Efficiency of Inefficient Endoreversible Thermal Machines. Brazilian Journal of Physics, 2016, 46, 282-287.	1.4	9
39	Escape of photons from two fixed extreme Reissner-Nordstr�m black holes. Physical Review D, 2008, 78, .	4.7	8
40	Path planning approach based on flock dynamics of moving particles. Applied Soft Computing Journal, 2013, 13, 2159-2170.	7.2	7
41	General N-box problem. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 359, 416-423.	2.1	5
42	Decoherence of a quantum harmonic oscillator monitored by a Bose-Einstein condensate. Physical Review A, 2011, 84, .	2.5	5
43	Delocalization and heat transport in multidimensional trapped ion systems. Physical Review E, 2019, 99, 062105.	2.1	5
44	Benchmarking quantum annealing dynamics: The spin-vector Langevin model. Physical Review Research, 2022, 4, .	3.6	5
45	Action scales for quantum decoherence and their relation to structures in phase space. Physical Review A, 2004, 69, .	2.5	4
46	Performance of Continuous Quantum Thermal Devices Indirectly Connected to Environments. Entropy, 2016, 18, 166.	2.2	4
47	Phantoms of regularity in the sea of quantum chaos. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 9, 554-559.	2.7	3
48	Quantum Clocks and Stopwatches. , 2008, , 235-278.		3
49	Dynamics of fluctuations in non-Markovian systems. Comptes Rendus Physique, 2007, 8, 684-695.	0.9	2
50	Quantum decoherence of an anharmonic oscillator monitored by a Bose-Einstein condensate. Physical Review A, 2014, 90, .	2.5	2
51	From quantum to classical by numbers. New Journal of Physics, 2019, 21, 123031.	2.9	2
52	Spatial configurations and temperature profiles in nonequilibrium steady state of two-species trapped ion systems. Physical Review E, 2020, 101, 012129.	2.1	2
53	Timescales in Quantum Open Systems: Dynamics of Time Correlation Functions and Stochastic Quantum Trajectory Methods in Non-Markovian Systems. Lecture Notes in Physics, 2009, , 277-301.	0.7	2
54	Entanglement in a continuously measured two-level system coupled to a harmonic oscillator. Physical Review A, 2009, 79, .	2.5	1

#	ARTICLE	IF	CITATIONS
55	Non-Markovian stochastic dynamics of a two level system immersed in a PBG material. , 2004, , .		0
56	Dynamics of time correlation functions and stochastic quantum trajectories methods in Non-Markovian systems. , 2010, , .		0
57	Scattering of photons in a two fixed extreme Reissner-Nordstrom black hole system. , 2010, , .		0