

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

257101

24
h-index

174990

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. <i>Reviews of Modern Physics</i> , 2017, 89, .	16.4	745
2	Optimally robust shortcuts to population inversion in two-level quantum systems. <i>New Journal of Physics</i> , 2012, 14, 093040.	1.2	287
3	Quantum-enhanced absorption refrigerators. <i>Scientific Reports</i> , 2014, 4, 3949.	1.6	215
4	Performance bound for quantum absorption refrigerators. <i>Physical Review E</i> , 2013, 87, 042131.	0.8	147
5	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
6	Heat Conductivity and Dynamical Instability. <i>Physical Review Letters</i> , 1999, 82, 1859-1862.	2.9	109
7	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
8	Ruelle classical resonances and dynamical chaos: The three- and four-disk scatterers. <i>Physical Review A</i> , 1992, 45, 8383-8397.	1.0	68
9	As expansion for the periodic-orbit quantization of hyperbolic systems. <i>Physical Review A</i> , 1993, 47, R3468-R3471.	1.0	62
10	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
11	2CaO·Al ₂ O ₃ :Er ³⁺ glass: An efficient optical temperature sensor. <i>Journal of Luminescence</i> , 2016, 179, 272-279.	1.5	54
12	Polygonal billiards and transport: Diffusion and heat conduction. <i>Physical Review E</i> , 2002, 66, 066131.	0.8	53
13	Multiple-Time Correlation Functions for Non-Markovian Interaction: Beyond the Quantum Regression Theorem. <i>Physical Review Letters</i> , 2005, 94, 200403.	2.9	49
14	Optimal performance of endoreversible quantum refrigerators. <i>Physical Review E</i> , 2014, 90, 062124.	0.8	48
15	Internal dissipation and heat leaks in quantum thermodynamic cycles. <i>Physical Review E</i> , 2015, 92, 032136.	0.8	42
16	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
17	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
18	Asymptotic discord and entanglement of nonresonant harmonic oscillators under weak and strong dissipation. <i>Physical Review A</i> , 2012, 86, .	1.0	31

#	ARTICLE	IF	CITATIONS
19	Transport in polygonal billiards. <i>Physica D: Nonlinear Phenomena</i> , 2004, 187, 184-199.	1.3	28
20	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
21	Hierarchy of equations of multiple-time correlation functions. <i>Physical Review A</i> , 2007, 75, .	1.0	27
22	Tuning heat transport in trapped-ion chains across a structural phase transition. <i>Physical Review B</i> , 2014, 89, .	1.1	27
23	Three-qubit refrigerator with two-body interactions. <i>Physical Review E</i> , 2020, 101, 012109.	0.8	27
24	Whispering-gallery modes in glass microspheres: optimization of pumping in a modified confocal microscope. <i>Optics Letters</i> , 2011, 36, 615.	1.7	26
25	Emission spectra of atoms with non-Markovian interaction: Fluorescence in a photonic crystal. <i>Physical Review A</i> , 2008, 77, .	1.0	24
26	New Ways of Understanding Semiclassical Quantization. <i>Advances in Chemical Physics</i> , 2007, , 105-364.	0.3	21
27	Chaotic scattering on four-disk billiards: Semiclassical and exact quantum theories. <i>Physical Review E</i> , 1994, 50, 2591-2596.	0.8	20
28	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
29	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
30	Quantum time-of-flight measurements: Kicked clock versus continuous clock. <i>Physical Review A</i> , 2003, 67, .	1.0	17
31	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
32	Classical emulation of quantum-coherent thermal machines. <i>Physical Review E</i> , 2019, 99, 062102.	0.8	16
33	Gaussian tripartite entanglement out of equilibrium. <i>Physical Review A</i> , 2013, 88, .	1.0	15
34	Gaussian entanglement induced by an extended thermal environment. <i>Physical Review A</i> , 2013, 88, .	1.0	15
35	Quantum correlations and energy currents across three dissipative oscillators. <i>Physical Review E</i> , 2015, 91, 062123.	0.8	15
36	Temperature dependence of the whispering gallery modes obtained in a glass microsphere codoped with Er ³⁺ -Yb ³⁺ ions. <i>Sensors and Actuators A: Physical</i> , 2015, 233, 422-426.	2.0	13

#	ARTICLE	IF	CITATIONS
37	Relation between topology and heat currents in multilevel absorption machines. <i>New Journal of Physics</i> , 2017, 19, 113037.	1.2	12
38	Efficiency of Inefficient Endoreversible Thermal Machines. <i>Brazilian Journal of Physics</i> , 2016, 46, 282-287.	0.7	9
39	Escape of photons from two fixed extreme Reissner-Nordström black holes. <i>Physical Review D</i> , 2008, 78, .	1.6	8
40	Path planning approach based on flock dynamics of moving particles. <i>Applied Soft Computing Journal</i> , 2013, 13, 2159-2170.	4.1	7
41	General N-box problem. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 359, 416-423.	0.9	5
42	Decoherence of a quantum harmonic oscillator monitored by a Bose-Einstein condensate. <i>Physical Review A</i> , 2011, 84, .	1.0	5
43	Delocalization and heat transport in multidimensional trapped ion systems. <i>Physical Review E</i> , 2019, 99, 062105.	0.8	5
44	Benchmarking quantum annealing dynamics: The spin-vector Langevin model. <i>Physical Review Research</i> , 2022, 4, .	1.3	5
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	Performance of Continuous Quantum Thermal Devices Indirectly Connected to Environments. <i>Entropy</i> , 2016, 18, 166.	1.1	4
47	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
48	Quantum Clocks and Stopwatches. , 2008, , 235-278.		3
49	Dynamics of fluctuations in non-Markovian systems. <i>Comptes Rendus Physique</i> , 2007, 8, 684-695.	0.3	2
50	Quantum decoherence of an anharmonic oscillator monitored by a Bose-Einstein condensate. <i>Physical Review A</i> , 2014, 90, .	1.0	2
51	From quantum to classical by numbers. <i>New Journal of Physics</i> , 2019, 21, 123031.	1.2	2
52	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
53	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
54	Entanglement in a continuously measured two-level system coupled to a harmonic oscillator. <i>Physical Review A</i> , 2009, 79, .	1.0	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