

Fernando Galve

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,827
citations

257450

24
h-index

254184

43
g-index

51
all docs

51
docs citations

51
times ranked

1286
citing authors

#	ARTICLE	IF	CITATIONS
1	Entropy production and thermodynamic power of the squeezed thermal reservoir. <i>Physical Review E</i> , 2016, 93, 052120.	2.1	144
2	Bringing Entanglement to the High Temperature Limit. <i>Physical Review Letters</i> , 2010, 105, 180501.	7.8	137
3	Synchronization, quantum correlations and entanglement in oscillator networks. <i>Scientific Reports</i> , 2013, 3, 1439.	3.3	121
4	Irreversible Work and Inner Friction in Quantum Thermodynamic Processes. <i>Physical Review Letters</i> , 2014, 113, 260601.	7.8	117
5	Genuine Quantum and Classical Correlations in Multipartite Systems. <i>Physical Review Letters</i> , 2011, 107, 190501.	7.8	111
6	Quantum correlations and mutual synchronization. <i>Physical Review A</i> , 2012, 85, .	2.5	109
7	Maximally discordant mixed states of two qubits. <i>Physical Review A</i> , 2011, 83, .	2.5	81
8	Unified view of correlations using the square-norm distance. <i>Physical Review A</i> , 2012, 85, .	2.5	79
9	A planar Penning trap. <i>European Physical Journal D</i> , 2005, 32, 139-146.	1.3	64
10	Quantum router based on ac control of qubit chains. <i>Physical Review A</i> , 2009, 80, .	2.5	59
11	Orthogonal measurements are almost sufficient for quantum discord of two qubits. <i>Europhysics Letters</i> , 2011, 96, 40005.	2.0	53
12	Quantum Otto cycle with inner friction: finite-time and disorder effects. <i>New Journal of Physics</i> , 2015, 17, 075007.	2.9	52
13	Probing the spectral density of a dissipative qubit via quantum synchronization. <i>Physical Review A</i> , 2016, 94, .	2.5	43
14	Entanglement resonance in driven spin chains. <i>Physical Review A</i> , 2009, 79, .	2.5	41
15	Microscopic description for the emergence of collective dissipation in extended quantum systems. <i>Scientific Reports</i> , 2017, 7, 42050.	3.3	41
16	Entanglement dynamics of nonidentical oscillators under decohering environments. <i>Physical Review A</i> , 2010, 81, .	2.5	40
17	Spectral origin of non-Markovian open-system dynamics: A finite harmonic model without approximations. <i>Physical Review A</i> , 2014, 89, .	2.5	40
18	Complex quantum networks as structured environments: engineering and probing. <i>Scientific Reports</i> , 2016, 6, 26861.	3.3	39

#	ARTICLE	IF	CITATIONS
19	Avoiding dissipation in a system of three quantum harmonic oscillators. <i>Physical Review A</i> , 2013, 87, .	2.5	36
20	Quantum Synchronization in Dimer Atomic Lattices. <i>Physical Review Letters</i> , 2019, 123, 023604.	7.8	34
21	Non-Markovianity hinders Quantum Darwinism. <i>Scientific Reports</i> , 2016, 6, 19607.	3.3	31
22	Energy cost and optimal entanglement production in harmonic chains. <i>Physical Review A</i> , 2009, 79, .	2.5	29
23	Nonequilibrium thermodynamic analysis of squeezing. <i>Physical Review A</i> , 2009, 79, .	2.5	28
24	Quantum Darwinism and non-Markovian dissipative dynamics from quantum phases of the spin-1/2XXmodel. <i>Physical Review A</i> , 2015, 92, .	2.5	28
25	Quantum Correlations and Synchronization Measures. <i>Quantum Science and Technology</i> , 2017, , 393-420.	2.6	27
26	Anisotropic Quantum Emitter Interactions in Two-Dimensional Photonic-Crystal Baths. <i>ACS Photonics</i> , 2019, 6, 221-229.	6.6	24
27	Operation of a planar Penning trap. <i>European Physical Journal D</i> , 2006, 40, 201-204.	1.3	22
28	Unveiling noiseless clusters in complex quantum networks. <i>Npj Quantum Information</i> , 2018, 4, .	6.7	22
29	Array of planar Penning traps as a nuclear magnetic resonance molecule for quantum computation. <i>Physical Review A</i> , 2005, 72, .	2.5	18
30	Discarding Power of Quantum Evolutions. <i>Physical Review Letters</i> , 2013, 110, 010501.	7.8	18
31	Minimal model for spontaneous quantum synchronization. <i>Physical Review A</i> , 2016, 94, .	2.5	17
32	Dynamical and quantum effects of collective dissipation in optomechanical systems. <i>New Journal of Physics</i> , 2017, 19, 113007.	2.9	17
33	Simultaneous imaging of hard and soft biological tissues in a low-field dental MRI scanner. <i>Scientific Reports</i> , 2020, 10, 21470.	3.3	14
34	Motional frequencies in a planar Penning trap. <i>Hyperfine Interactions</i> , 2007, 174, 41-46.	0.5	13
35	Information sharing in quantum complex networks. <i>Physical Review A</i> , 2013, 87, .	2.5	12
36	Creation and manipulation of entanglement in spin chains far from equilibrium. <i>European Physical Journal: Special Topics</i> , 2009, 180, 237-246.	2.6	10

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37	Ion-trap simulation of the quantum phase transition in an exactly solvable model of spins coupled to bosons. <i>Physical Review A</i> , 2010, 81, .	2.5	10
38	Entangling power of two-qubit gates on mixed states. <i>Physical Review A</i> , 2014, 89, .	2.5	6
39	Coherent and radiative couplings through two-dimensional structured environments. <i>Physical Review A</i> , 2018, 97, .	2.5	6
40	Prepolarized MRI of hard tissues and solidâ€state matter. <i>NMR in Biomedicine</i> , 2022, 35, .	2.8	6
41	ROBUSTNESS OF DIFFERENT INDICATORS OF QUANTUMNESS IN THE PRESENCE OF DISSIPATION. <i>International Journal of Quantum Information</i> , 2011, 09, 1825-1836.	1.1	4
42	Multi-ion sensing of dipolar noise sources in ion traps. <i>Physical Review A</i> , 2017, 96, .	2.5	4
43	Completely Subradiant Multiâ€Atom Architectures Through 2D Photonic Crystals. <i>Annalen Der Physik</i> , 2018, 530, 1800017.	2.4	4
44	Propagation properties and limitations on the attainable entanglement in a driven harmonic chain. <i>Physical Review A</i> , 2011, 84, .	2.5	3
45	Energy and information propagation in a finite coupled bosonic heat bath. <i>International Journal of Quantum Information</i> , 2014, 12, 1560022.	1.1	3
46	Magneto-stimulation limits in medical imaging applications with rapid field dynamics. <i>Physics in Medicine and Biology</i> , 2022, , .	3.0	3
47	Confinement study in a planar Penning trap. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
48	Time evolution of entanglement and quantum correlations in dissipative quantum systems. , 2011, , .		0
49	Synchronization and quantum correlations in harmonic networks. , 2013, , .		0