Fernando Galve

List of Publications by Year
in descending order

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	Magneto-stimulation limits in medical imaging applications with rapid field dynamics. Physics in Medicine and Biology, 2022, , .	3.0	3
2	Prepolarized MRI of hard tissues and solidâ€state matter. NMR in Biomedicine, 2022, 35, .	2.8	6
3	Simultaneous imaging of hard and soft biological tissues in a low-field dental MRI scanner. Scientific Reports, 2020, 10, 21470.	3.3	14
4	Quantum Synchronization in Dimer Atomic Lattices. Physical Review Letters, 2019, 123, 023604.	7.8	34
5	Anisotropic Quantum Emitter Interactions in Two-Dimensional Photonic-Crystal Baths. ACS Photonics, 2019, 6, 221-229.	6.6	24
6	Completely Subradiant Multiâ€Atom Architectures Through 2D Photonic Crystals. Annalen Der Physik, 2018, 530, 1800017.	2.4	4
7	Coherent and radiative couplings through two-dimensional structured environments. Physical Review A, 2018, 97, .	2.5	6
8	Unveiling noiseless clusters in complex quantum networks. Npj Quantum Information, 2018, 4, .	6.7	22
9	Multi-ion sensing of dipolar noise sources in ion traps. Physical Review A, 2017, 96, .	2.5	4
10	Microscopic description for the emergence of collective dissipation in extended quantum systems. Scientific Reports, 2017, 7, 42050.	3.3	41
11	Dynamical and quantum effects of collective dissipation in optomechanical systems. New Journal of Physics, 2017, 19, 113007.	2.9	17
12	Quantum Correlations and Synchronization Measures. Quantum Science and Technology, 2017, , 393-420.	2.6	27
13	Complex quantum networks as structured environments: engineering and probing. Scientific Reports, 2016, 6, 26861.	3.3	39
14	Probing the spectral density of a dissipative qubit via quantum synchronization. Physical Review A, 2016, 94, .	2.5	43
15	Entropy production and thermodynamic power of the squeezed thermal reservoir. Physical Review E, 2016, 93, 052120.	2.1	144
16	Minimal model for spontaneous quantum synchronization. Physical Review A, 2016, 94, .	2.5	17
17	Non-Markovianity hinders Quantum Darwinism. Scientific Reports, 2016, 6, 19607.	3.3	31
18	Quantum Darwinism and non-Markovian dissipative dynamics from quantum phases of the spin-1/2XXmodel. Physical Review A, 2015, 92, .	2.5	28

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19	Quantum Otto cycle with inner friction: finite-time and disorder effects. New Journal of Physics, 2015, 17, 075007.	2.9	52
20	Irreversible Work and Inner Friction in Quantum Thermodynamic Processes. Physical Review Letters, 2014, 113, 260601.	7.8	117
21	Energy and information propagation in a finite coupled bosonic heat bath. International Journal of Quantum Information, 2014, 12, 1560022.	1.1	3
22	Entangling power of two-qubit gates on mixed states. Physical Review A, 2014, 89, .	2.5	6
23	Spectral origin of non-Markovian open-system dynamics: A finite harmonic model without approximations. Physical Review A, 2014, 89, .	2.5	40
24	Discording Power of Quantum Evolutions. Physical Review Letters, 2013, 110, 010501.	7.8	18
25	Avoiding dissipation in a system of three quantum harmonic oscillators. Physical Review A, 2013, 87, .	2.5	36
26	Synchronization, quantum correlations and entanglement in oscillator networks. Scientific Reports, 2013, 3, 1439.	3.3	121
27	Synchronization and quantum correlations in harmonic networks. , 2013, , .		0
28	Information sharing in quantum complex networks. Physical Review A, 2013, 87, .	2.5	12
29	Unified view of correlations using the square-norm distance. Physical Review A, 2012, 85, .	2.5	79
30	Quantum correlations and mutual synchronization. Physical Review A, 2012, 85, .	2.5	109
31	Genuine Quantum and Classical Correlations in Multipartite Systems. Physical Review Letters, 2011, 107, 190501.	7.8	111
32	Maximally discordant mixed states of two qubits. Physical Review A, 2011, 83, .	2.5	81
33	Time evolution of entanglement and quantum correlations in dissipative quantum systems. , 2011, , .		0
34	Propagation properties and limitations on the attainable entanglement in a driven harmonic chain. Physical Review A, 2011, 84, .	2.5	3
35	ROBUSTNESS OF DIFFERENT INDICATORS OF QUANTUMNESS IN THE PRESENCE OF DISSIPATION. International Journal of Quantum Information, 2011, 09, 1825-1836.	1.1	4
36	Orthogonal measurements are almost sufficient for quantum discord of two qubits. Europhysics Letters, 2011, 96, 40005.	2.0	53

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37	Entanglement dynamics of nonidentical oscillators under decohering environments. Physical Review A, 2010, 81, .	2.5	40
38	Ion-trap simulation of the quantum phase transition in an exactly solvable model of spins coupled to bosons. Physical Review A, 2010, 81, .	2.5	10
39	Bringing Entanglement to the High Temperature Limit. Physical Review Letters, 2010, 105, 180501.	7.8	137
40	Nonequilibrium thermodynamic analysis of squeezing. Physical Review A, 2009, 79, .	2.5	28
41	Energy cost and optimal entanglement production in harmonic chains. Physical Review A, 2009, 79, .	2.5	29
42	Entanglement resonance in driven spin chains. Physical Review A, 2009, 79, .	2.5	41
43	Quantum router based on ac control of qubit chains. Physical Review A, 2009, 80, .	2.5	59
44	Creation and manipulation of entanglement in spin chains far from equilibrium. European Physical Journal: Special Topics, 2009, 180, 237-246.	2.6	10
45	Motional frequencies in a planar Penning trap. Hyperfine Interactions, 2007, 174, 41-46.	0.5	13
46	Confinement study in a planar Penning trap. AIP Conference Proceedings, 2006, , .	0.4	0
47	Operation of a planar Penning trap. European Physical Journal D, 2006, 40, 201-204.	1.3	22
48	A planar Penning trap. European Physical Journal D, 2005, 32, 139-146.	1.3	64
49	Array of planar Penning traps as a nuclear magnetic resonance molecule for quantum computation. Physical Review A, 2005, 72, .	2.5	18