

Bruno Bellomo

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,533
citations

304743

22
h-index

206112

48
g-index

51
all docs

51
docs citations

51
times ranked

1073
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-Markovian Effects on the Dynamics of Entanglement. <i>Physical Review Letters</i> , 2007, 99, 160502.	7.8	695
2	Entanglement dynamics of two independent qubits in environments with and without memory. <i>Physical Review A</i> , 2008, 77, .	2.5	247
3	DYNAMICS OF QUANTUM CORRELATIONS IN TWO-QUBIT SYSTEMS WITHIN NON-MARKOVIAN ENVIRONMENTS. <i>International Journal of Modern Physics B</i> , 2013, 27, 1345053.	2.0	218
4	Entanglement trapping in structured environments. <i>Physical Review A</i> , 2008, 78, .	2.5	193
5	Revival of quantum correlations without system-environment back-action. <i>Physical Review A</i> , 2012, 85, .	2.5	164
6	Genuine Quantum and Classical Correlations in Multipartite Systems. <i>Physical Review Letters</i> , 2011, 107, 190501.	7.8	111
7	Unified view of correlations using the square-norm distance. <i>Physical Review A</i> , 2012, 85, .	2.5	79
8	Dynamics of geometric and entropic quantifiers of correlations in open quantum systems. <i>Physical Review A</i> , 2012, 86, .	2.5	78
9	Quantum thermal machines with single nonequilibrium environments. <i>Physical Review A</i> , 2015, 91, .	2.5	53
10	Quantum synchronization as a local signature of super- and subradiance. <i>Physical Review A</i> , 2017, 95, .	2.5	52
11	Connection among entanglement, mixedness, and nonlocality in a dynamical context. <i>Physical Review A</i> , 2010, 81, .	2.5	51
12	DYNAMICS AND EXTRACTION OF QUANTUM DISCORD IN A MULTIPARTITE OPEN SYSTEM. <i>International Journal of Quantum Information</i> , 2011, 09, 1665-1676.	1.1	46
13	Creation and protection of entanglement in systems out of thermal equilibrium. <i>New Journal of Physics</i> , 2013, 15, 113052.	2.9	41
14	Entanglement degradation in the solid state: Interplay of adiabatic and quantum noise. <i>Physical Review A</i> , 2010, 81, .	2.5	40
15	Two-qubit entanglement dynamics for two different non-Markovian environments. <i>Physica Scripta</i> , 2010, T140, 014014.	2.5	39
16	Dynamics of non-classically-reproducible entanglement. <i>Physical Review A</i> , 2008, 78, .	2.5	37
17	Long-Time Preservation of Nonlocal Entanglement. <i>Advanced Science Letters</i> , 2009, 2, 459-462.	0.2	36
18	Dynamics of correlations due to a phase-noisy laser. <i>Physica Scripta</i> , 2012, T147, 014004.	2.5	33

#	ARTICLE	IF	CITATIONS
19	Quantum systems in a stationary environment out of thermal equilibrium. <i>Physical Review A</i> , 2013, 87, .	2.5	31
20	Steady entanglement out of thermal equilibrium. <i>Europhysics Letters</i> , 2013, 104, 10006.	2.0	31
21	N identical particles and one particle to entangle them all. <i>Physical Review A</i> , 2017, 96, .	2.5	28
22	Entanglement dynamics of two independent cavity-embedded quantum dots. <i>Physica Scripta</i> , 2011, T143, 014004.	2.5	26
23	Activating remote entanglement in a quantum network by local counting of identical particles. <i>Physical Review A</i> , 2019, 99, .	2.5	21
24	A tomographic approach to non-Markovian master equations. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 395303.	2.1	20
25	Nonequilibrium dissipation-driven steady many-body entanglement. <i>Physical Review A</i> , 2015, 91, .	2.5	17
26	Reconstruction of Markovian master equation parameters through symplectic tomography. <i>Physical Review A</i> , 2009, 80, .	2.5	15
27	Dynamics of an elementary quantum system in environments out of thermal equilibrium. <i>Europhysics Letters</i> , 2012, 100, 20006.	2.0	15
28	Power maximization of two-stroke quantum thermal machines. <i>Physical Review A</i> , 2021, 103, .	2.5	14
29	Reconstruction of time-dependent coefficients: A check of approximation schemes for non-Markovian convolutionless dissipative generators. <i>Physical Review A</i> , 2010, 82, .	2.5	12
30	Thermal Transistor Effect in Quantum Systems. <i>Physical Review Applied</i> , 2021, 16, .	3.8	12
31	An optimized Bell test in a dynamical system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 3007-3011.	2.1	9
32	Microscopic and phenomenological models of driven systems in structured reservoirs. <i>Physical Review A</i> , 2020, 101, .	2.5	9
33	Driven quantum harmonic oscillators: A working medium for thermal machines. <i>AVS Quantum Science</i> , 2022, 4, 012001.	4.9	8
34	Initial correlations effects on decoherence at zero temperature. <i>Journal of Physics A</i> , 2005, 38, 10203-10216.	1.6	6
35	Loss of coherence and dressing in QED. <i>Physical Review A</i> , 2006, 74, .	2.5	6
36	Frictional quantum decoherence. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2007, 40, 9437-9453.	2.1	6

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37	Simple scheme for extracting work with a single bath. <i>Physical Review E</i> , 2019, 100, 032143.	2.1	5
38	Two-photon-interaction effects in the bad-cavity limit. <i>Physical Review A</i> , 2022, 105, .	2.5	5
39	DECAY OF NONLOCALITY DUE TO ADIABATIC AND QUANTUM NOISE IN THE SOLID STATE. <i>International Journal of Quantum Information</i> , 2011, 09, 63-71.	1.1	4
40	Protecting operations on qudits from noise by continuous dynamical decoupling. <i>Physical Review Research</i> , 2021, 3, .	3.6	4
41	Generation of minimum-energy entangled states. <i>Physical Review A</i> , 2021, 103, .	2.5	4
42	Distillation by repeated measurements: Continuous spectrum case. <i>Physical Review A</i> , 2010, 82, .	2.5	3
43	Wave Packet Decoherence in Momentum Space. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	2
44	Extraction of a squeezed state in a field mode via repeated measurements on an auxiliary quantum particle. <i>Physical Review A</i> , 2009, 80, .	2.5	2
45	Exploring the limits of the generation of nonclassical states of spins coupled to a cavity by optimal control. <i>Physical Review A</i> , 2022, 105, .	2.5	2
46	Thwarted dynamics by partial projective measurements. <i>Journal of Russian Laser Research</i> , 2009, 30, 451-457.	0.6	1
47	Extraction of Work via a Thermalization Protocol. <i>Proceedings (mdpi)</i> , 2019, 12, 22.	0.2	1
48	Energy bounds for entangled states. <i>Physical Review Research</i> , 2020, 2, .	3.6	1
49	Spatial Decoherence in QED. <i>Open Systems and Information Dynamics</i> , 2006, 13, 393-402.	1.2	0
50	Dissipation and decoherence in Brownian motion. <i>Journal of Physics: Conference Series</i> , 2007, 67, 012028.	0.4	0
51	Indistinguishability as a quantum information resource by localized measurements. , 2019, , .		0