

# Aurelian Isar

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8633294/publications.pdf>

Version: 2024-02-01

68  
papers

629  
citations

516710

16  
h-index

677142

22  
g-index

69  
all docs

69  
docs citations

69  
times ranked

188  
citing authors

#	ARTICLE	IF	CITATIONS
1	Purity and decoherence in the theory of a damped harmonic oscillator. <i>Physical Review E</i> , 1999, 60, 6371-6381.	2.1	41
2	Density matrix for the damped harmonic oscillator within the Lindblad theory. <i>Journal of Mathematical Physics</i> , 1993, 34, 3887-3900.	1.1	35
3	Quantum decoherence and classical correlations of the harmonic oscillator in the Lindblad theory. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007, 373, 298-312.	2.6	35
4	Entanglement Generation and Evolution in Open Quantum Systems. <i>Open Systems and Information Dynamics</i> , 2009, 16, 205-219.	1.2	29
5	PHASE SPACE REPRESENTATION FOR OPEN QUANTUM SYSTEMS WITHIN THE LINDBLAD THEORY. <i>International Journal of Modern Physics B</i> , 1996, 10, 2767-2779.	2.0	27
6	Decoherence and asymptotic entanglement in open quantum dynamics. <i>Journal of Russian Laser Research</i> , 2007, 28, 439-452.	0.6	26
7	Quantum Entanglement and Quantum Discord of Two-Mode Gaussian States in a Thermal Environment. <i>Open Systems and Information Dynamics</i> , 2011, 18, 175-190.	1.2	26
8	ASYMPTOTIC ENTANGLEMENT IN OPEN QUANTUM SYSTEMS. <i>International Journal of Quantum Information</i> , 2008, 06, 689-694.	1.1	25
9	Dynamics of quantum discord of two coupled spin-1/2 qubits subjected to time-dependent magnetic fields. <i>Results in Physics</i> , 2019, 13, 102147.	4.1	21
10	Quasiprobability distributions for open quantum systems within the Lindblad theory. <i>Journal of Mathematical Physics</i> , 1991, 32, 2128-2134.	1.1	20
11	Entanglement dynamics of two-mode Gaussian states in a thermal environment. <i>Journal of Russian Laser Research</i> , 2009, 30, 458-465.	0.6	20
12	Entanglement and mixedness in open systems with continuous variables*. <i>Journal of Russian Laser Research</i> , 2010, 31, 182-190.	0.6	19
13	Dynamics of quantum entanglement in Gaussian open systems. <i>Physica Scripta</i> , 2010, 82, 038116.	2.5	18
14	Deformation of quantum oscillator and of its interaction with environment. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 335, 79-93.	2.6	17
15	Entanglement and discord in two-mode Gaussian open quantum systems. <i>Physica Scripta</i> , 2012, T147, 014015.	2.5	17
16	Entanglement in open quantum dynamics. <i>Physica Scripta</i> , 2009, T135, 014033.	2.5	16
17	Wigner Functions and Spin Tomograms for Qubit States. <i>Journal of Russian Laser Research</i> , 2014, 35, 3-13.	0.6	16
18	Quantum correlations of two-mode Gaussian systems in a thermal environment. <i>Physica Scripta</i> , 2013, T153, 014035.	2.5	14

#	ARTICLE	IF	CITATIONS
19	Entanglement Generation in Two-Mode Gaussian Systems in a Thermal Environment. <i>Open Systems and Information Dynamics</i> , 2016, 23, 1650007.	1.2	14
20	Finite Phase Space, Wigner Functions, and Tomography for Two-Qubit States. <i>Journal of Russian Laser Research</i> , 2014, 35, 427-436.	0.6	13
21	Lindblad master equation for the damped harmonic oscillator with deformed dissipation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003, 322, 233-246.	2.6	12
22	Generation of quantum discord in two-mode Gaussian systems in a thermal reservoir. <i>European Physical Journal D</i> , 2017, 71, 1.	1.3	12
23	Entanglement in two-mode continuous variable open quantum systems. <i>Physica Scripta</i> , 2011, T143, 014012.	2.5	11
24	Evolution of quantum steering in a Gaussian noisy channel. <i>European Physical Journal D</i> , 2018, 72, 1.	1.3	11
25	Quantum Discord of Two Bosonic Modes in Two-Reservoir Model. <i>Open Systems and Information Dynamics</i> , 2013, 20, 1340003.	1.2	10
26	Entanglement of a laser-driven pair of two-level qubits via its phonon environment. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, 1127.	2.1	10
27	Quantum Correlation Dynamics in Controlled Two-Coupled-Qubit Systems. <i>Entropy</i> , 2020, 22, 785.	2.2	10
28	Use of characteristic function in open quantum systems and charge equilibrium in deep inelastic reactions. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1991, 17, 385-400.	3.6	9
29	Deformed quantum harmonic oscillator with diffusion and dissipation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002, 310, 364-376.	2.6	8
30	Quantum fidelity of Gaussian states in open systems. <i>Physics of Particles and Nuclei Letters</i> , 2009, 6, 567-571.	0.4	8
31	Quantum Discord and Classical Correlations of Two Bosonic Modes in the Two-Reservoir Model. <i>Journal of Russian Laser Research</i> , 2014, 35, 62-70.	0.6	8
32	Minimal sets of dequantizers and quantizers for finite-dimensional quantum systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 2778-2782.	2.1	8
33	Extractable quantum work from a two-mode Gaussian state in a noisy channel. <i>Scientific Reports</i> , 2021, 11, 24286.	3.3	8
34	Continuous variable entanglement in open quantum dynamics. <i>Physica Scripta</i> , 2010, T140, 014023.	2.5	7
35	Entanglement dynamics of two-mode Gaussian systems in a two-reservoir model. <i>Physica Scripta</i> , 2014, T160, 014019.	2.5	6
36	Detecting entanglement of unknown continuous variable states with random measurements. <i>New Journal of Physics</i> , 2020, 22, 123041.	2.9	6

#	ARTICLE	IF	CITATIONS
37	Continuous variable quantum teleportation of a thermal state in a thermal environment. Results in Physics, 2022, 39, 105700.	4.1	6
38	Gaussian geometric discord in terms of Hellinger distance. AIP Conference Proceedings, 2015, , .	0.4	4
39	Continuous Sets of Dequantizers and Quantizers for One-Qubit States*. Journal of Russian Laser Research, 2016, 37, 544-555.	0.6	4
40	Two-mode Gaussian states as resource of secure quantum teleportation in open systems. Chinese Journal of Physics, 2020, 68, 419-425.	3.9	4
41	Rényi-2 quantum correlations of two-mode Gaussian systems in a thermal environment. Physica Scripta, 2013, 87, 038108.	2.5	3
42	Generation of Quantum Correlations in Bipartite Gaussian Open Quantum Systems. EPJ Web of Conferences, 2018, 173, 01006.	0.3	3
43	Wigner Distribution for the Harmonic Oscillator within the Theory of Open Quantum Systems. NATO ASI Series Series B: Physics, 1994, , 481-482.	0.2	3
44	Quantum decoherence of the damped harmonic oscillator. Optics and Spectroscopy (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 462	0.6	2
45	Gaussian geometric discord of two-mode systems in a thermal environment. AIP Conference Proceedings, 2014, , .	0.4	2
46	Dynamics of Entropy Production Rate in Two Coupled Bosonic Modes Interacting with a Thermal Reservoir. Entropy, 2022, 24, 696.	2.2	2
47	DIFFUSION DEPENDING ON LINEAR MOMENTUM FOR CONTINUUM STATES. International Journal of Modern Physics B, 2012, 26, 1250005.	2.0	1
48	Entanglement evolution of a two-mode Gaussian system in various thermal environments. AIP Conference Proceedings, 2015, , .	0.4	1
49	Entanglement versus cooling in the system of a driven pair of two-level qubits longitudinally coupled with a boson-mode field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 065501.	1.5	1
50	Quantum decoherence in open systems. AIP Conference Proceedings, 2007, , .	0.4	0
51	Quantum decoherence in the theory of open systems. Physics of Particles and Nuclei Letters, 2007, 4, 133-136.	0.4	0
52	Quantum Entanglement in Open Systems. AIP Conference Proceedings, 2008, , .	0.4	0
53	Quantum entanglement of two-mode continuous variable states in a thermal reservoir. , 2009, , .		0
54	Evolution of entanglement in open quantum systems. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
55	Time Evolution of Continuous Variable Entanglement in Open Quantum Systems. , 2010, , .		0
56	Generation and evolution of entanglement in open quantum dynamics. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2010, 108, 213-219.	0.6	0
57	Quantum Entanglement and Quantum Discord in Gaussian Open Systems. , 2011, , .		0
58	Continuous variable entanglement in two-mode open quantum systems. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2011, 111, 558-564.	0.6	0
59	Quantum correlations in Gaussian open systems. , 2012, , .		0
60	Quantum correlations in two-mode Gaussian open quantum systems. , 2013, , .		0
61	The 19th Central European Workshop on Quantum Optics. Physica Scripta, 2013, T153, 010301.	2.5	0
62	Diffusion and dissipation by linear momentum in spherical environment. International Journal of Modern Physics B, 2014, 28, 1450077.	2.0	0
63	Entanglement of formation in two-mode Gaussian systems in a thermal environment. AIP Conference Proceedings, 2015, , .	0.4	0
64	Generation of Gaussian quantum discord of two bosonic modes in a thermal environment. AIP Conference Proceedings, 2017, , .	0.4	0
65	Coherence Dynamics of Two Interacting Bosonic Modes in a Thermal Environment. EPJ Web of Conferences, 2020, 226, 01006.	0.3	0
66	Evolution of Gaussian Rényi-2 quantum correlations in a squeezed thermal environment. International Journal of Quantum Information, 2022, 20, .	1.1	0
67	Time Evolution of Quantum Coherence of Two Bosonic Modes in Noisy Environments. Journal of Russian Laser Research, 2022, 43, 39-47.	0.6	0
68	Time Evolution of Quantum Coherence of Two Bosonic Modes in Noisy Environments. Journal of Russian Laser Research, 2022, 43, 39.	0.6	0