List of Publications by Year in descending order

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Ινρει Ριπο

#	Article	IF	CITATIONS
1	Measure for the Degree of Non-Markovian Behavior of Quantum Processes in Open Systems. Physical Review Letters, 2009, 103, 210401.	2.9	1,072
2	<i>Colloquium</i> : Non-Markovian dynamics in open quantum systems. Reviews of Modern Physics, 2016, 88, .	16.4	870
3	Sudden Transition between Classical and Quantum Decoherence. Physical Review Letters, 2010, 104, 200401.	2.9	469
4	Experimental control of the transition from Markovian to non-Markovian dynamics of openÂquantumÂsystems. Nature Physics, 2011, 7, 931-934.	6.5	442
5	Measure for the non-Markovianity of quantum processes. Physical Review A, 2010, 81, .	1.0	378
6	Non-Markovian Quantum Jumps. Physical Review Letters, 2008, 100, 180402.	2.9	271
7	Sudden death and sudden birth of entanglement in common structured reservoirs. Physical Review A, 2009, 79, .	1.0	213
8	Statistically Validated Networks in Bipartite Complex Systems. PLoS ONE, 2011, 6, e17994.	1.1	179
9	Markovianity and non-Markovianity in quantum and classical systems. New Journal of Physics, 2011, 13, 093004.	1.2	141
10	Optimal state pairs for non-Markovian quantum dynamics. Physical Review A, 2012, 86, .	1.0	137
11	Witness for initial system-environment correlations in open-system dynamics. Europhysics Letters, 2010, 92, 60010.	0.7	133
12	Nonlocal Memory Effects in the Dynamics of Open Quantum Systems. Physical Review Letters, 2012, 108, 210402.	2.9	115
13	Open system dynamics with non-Markovian quantum jumps. Physical Review A, 2009, 79, .	1.0	114
14	Microscopic derivation of the Jaynes-Cummings model with cavity losses. Physical Review A, 2007, 75, .	1.0	109
15	Initial correlations in open-systems dynamics: The Jaynes-Cummings model. Physical Review A, 2010, 82, .	1.0	109
16	Nonlocal memory effects allow perfect teleportation with mixed states. Scientific Reports, 2014, 4, 4620.	1.6	109
17	Pseudomodes as an effective description of memory: Non-Markovian dynamics of two-state systems in structured reservoirs. Physical Review A, 2009, 80, .	1.0	107
18	Quantifying non-Markovianity of continuous-variable Gaussian dynamical maps. Physical Review A, 2011, 84, .	1.0	100

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19	Measuring non-Markovianity of processes with controllable system-environment interaction. Europhysics Letters, 2012, 97, 10002.	0.7	98
20	Identification of clusters of investors from their real trading activity in a financial market. New Journal of Physics, 2012, 14, 013041.	1.2	88
21	Lindblad- and non-Lindblad-type dynamics of a quantum Brownian particle. Physical Review A, 2004, 70, .	1.0	85
22	Photonic realization of nonlocal memory effects and non-Markovian quantum probes. Scientific Reports, 2013, 3, .	1.6	81
23	Divisibility of quantum dynamical maps and collision models. Physical Review A, 2017, 96, .	1.0	70
24	FROZEN DISCORD IN NON-MARKOVIAN DEPHASING CHANNELS. International Journal of Quantum Information, 2011, 09, 981-991.	0.6	69
25	Zeno and Anti-Zeno Effects for Quantum Brownian Motion. Physical Review Letters, 2006, 97, 130402.	2.9	68
26	Phenomenological memory-kernel master equations and time-dependent Markovian processes. Physical Review A, 2010, 81, .	1.0	64
27	Eternal non-Markovianity: from random unitary to Markov chain realisations. Scientific Reports, 2017, 7, 6379.	1.6	64
28	How news affects the trading behaviour of different categories of investors in a financial market. Quantitative Finance, 2015, 15, 213-229.	0.9	58
29	Thermodynamic power of non-Markovianity. Scientific Reports, 2016, 6, 27989.	1.6	58
30	Cavity losses for the dissipative Jaynes–Cummings Hamiltonian beyond rotating wave approximation. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 14527-14536.	0.7	52
31	Stochastic jump processes for non-Markovian quantum dynamics. Europhysics Letters, 2009, 85, 50004.	0.7	51
32	Non-Markovian quantum dynamics: What is it good for?. Europhysics Letters, 2019, 128, 30001.	0.7	48
33	Efficient superdense coding in the presence of non-Markovian noise. Europhysics Letters, 2016, 114, 10005.	0.7	46
34	Non-Markovian quantum dynamics: What does it mean?. Europhysics Letters, 2019, 127, 50001.	0.7	45
35	Simulating quantum Brownian motion with single trapped ions. Physical Review A, 2004, 69, .	1.0	44
36	Community characterization of heterogeneous complex systems. Journal of Statistical Mechanics: Theory and Experiment, 2011, 2011, P01019.	0.9	44

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37	Off-resonant entanglement generation in a lossy cavity. Physical Review A, 2009, 79, .	1.0	43
38	Experimental implementation of fully controlled dephasing dynamics and synthetic spectral densities. Nature Communications, 2018, 9, 3453.	5.8	43
39	Environment-dependent dissipation in quantum Brownian motion. Physical Review A, 2009, 79, .	1.0	40
40	Correlations in quantum states and the local creation of quantum discord. Physical Review A, 2012, 85, .	1.0	40
41	Complex quantum networks as structured environments: engineering and probing. Scientific Reports, 2016, 6, 26861.	1.6	39
42	Reconfigurable optical implementation of quantum complex networks. New Journal of Physics, 2018, 20, 053024.	1.2	39
43	Long-term ecology of investors in a financial market. Palgrave Communications, 2018, 4, .	4.7	35
44	Population trapping due to cavity losses. Physical Review A, 2008, 77, .	1.0	33
45	Novel Analytic Calculation of Electron Gas Properties. Physical Review Letters, 1996, 77, 4237-4240.	2.9	31
46	Misbeliefs and misunderstandings about the non-Markovian dynamics of a damped harmonic oscillator. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, S98-S103.	1.4	31
47	Controlling entropic uncertainty bound through memory effects. Europhysics Letters, 2015, 111, 50006.	0.7	30
48	Counterintuitive transitions between crossing energy levels. Physical Review A, 2005, 72, .	1.0	27
49	Driven harmonic oscillator as a quantum simulator for open systems. Physical Review A, 2006, 74, .	1.0	25
50	Entanglement distribution in optical fibers assisted by nonlocal memory effects. Europhysics Letters, 2014, 107, 54006.	0.7	24
51	Entanglement trapping in a nonstationary structured reservoir. Physical Review A, 2012, 86, .	1.0	23
52	Noisy quantum walks of two indistinguishable interacting particles. Physical Review A, 2017, 95, .	1.0	21
53	Interplay between entanglement and entropy in two-qubit systems. Journal of Physics B: Atomic, Molecular and Optical Physics, 2010, 43, 085505.	0.6	19
54	Local-in-time master equations with memory effects: applicability and interpretation. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 154004.	0.6	17

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55	Time-invariant entanglement and sudden death of nonlocality. Physical Review A, 2016, 94, .	1.0	17
56	Rate Operator Unraveling for Open Quantum System Dynamics. Physical Review Letters, 2020, 124, 190402.	2.9	17
57	Quantum theory of heating of a single trapped ion. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 308, 6-10.	0.9	16
58	Feshbach-Resonant Interactions inK40andLi6Degenerate Fermi Gases. Physical Review Letters, 2005, 94, 060403.	2.9	15
59	Locality and universality of quantum memory effects. Scientific Reports, 2014, 4, 6327.	1.6	14
60	Patterns of trading profiles at the Nordic Stock Exchange. A correlation-based approach Chaos, Solitons and Fractals, 2016, 88, 267-278.	2.5	13
61	Experimental realization of high-fidelity teleportation via a non-Markovian open quantum system. Physical Review A, 2020, 102, .	1.0	13
62	Atomic collision dynamics in optical lattices. Physical Review A, 2002, 65, .	1.0	11
63	Non-Markovian weak coupling limit of quantum Brownian motion. European Physical Journal D, 2009, 55, 181-187.	0.6	11
64	Non-Markovian dynamics in two-qubit dephasing channels with an application to superdense coding. Physical Review A, 2016, 93, .	1.0	11
65	Non-Markovian discrete qubit dynamics. Science Bulletin, 2016, 61, 1031-1036.	4.3	11
66	Diffusive Limit of Non-Markovian Quantum Jumps. Physical Review Letters, 2020, 125, 150403.	2.9	11
67	Efficient quantum transport in a multi-site system combining classical noise and quantum baths. New Journal of Physics, 2020, 22, 013028.	1.2	10
68	Interferometric approach to open quantum systems and non-Markovian dynamics. Physical Review A, 2021, 103, .	1.0	10
69	High-frequency trading and networked markets. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	9
70	Generation of entanglement density within a reservoir. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 065505.	0.6	8
71	Discrete dynamics and non-Markovianity. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 125501.	0.6	8
72	Raman photoassociation of Bose-Fermi mixtures and the subsequent prospects for atom-molecule Cooper pairing. Physical Review A, 2004, 69, .	1.0	7

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73	Quantum Brownian motion for periodic coupling to an Ohmic bath. Physical Review A, 2007, 75, .	1.0	7
74	Non-Markovian waiting-time distribution for quantum jumps in open systems. Physical Review A, 2012, 86, .	1.0	7
75	Local probe for connectivity and coupling strength in quantum complex networks. Scientific Reports, 2018, 8, 13010.	1.6	7
76	Photonic dephasing dynamics and the role of initial correlations. Physical Review A, 2020, 101, .	1.0	7
77	Optical shielding of cold collisions in blue-detuned near-resonant optical lattices. Physical Review A, 2002, 66, .	1.0	6
78	Radiative collisional heating at the Doppler limit for laser-cooled magnesium atoms. Physical Review A, 2004, 70, .	1.0	6
79	New directions in degenerate dipolar molecules via collective association. European Physical Journal D, 2004, 31, 273-282.	0.6	6
80	Quantitative Analysis of Gender Stereotypes and Information Aggregation in a National Election. PLoS ONE, 2013, 8, e58910.	1.1	6
81	Cold collisions between atoms in optical lattices. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, L231-L237.	0.6	5
82	Connecting two jumplike unravelings for non-Markovian open quantum systems. Physical Review A, 2011, 84, .	1.0	5
83	Detecting non-Markovianity from continuous monitoring. Physical Review A, 2014, 90, .	1.0	5
84	Role of correlations in the thermalization of quantum systems. New Journal of Physics, 2012, 14, 113034.	1.2	4
85	Symmetry in the open-system dynamics of quantum correlations. Scientific Reports, 2017, 7, 8367.	1.6	4
86	Distributing memory effects in an open two-qubit system. Physical Review A, 2020, 102, .	1.0	4
87	Probing the spectral dimension of quantum network geometries. Journal of Physics Complexity, 2021, 2, 015001.	0.9	4
88	Collision rates in near-resonant optical lattices. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 1135.	0.9	3
89	Transient dynamics of linear quantum amplifiers. European Physical Journal D, 2005, 36, 329-338.	0.6	3
90	Remote polarization-entanglement generation by local dephasing and frequency up-conversion. Physical Review A, 2017, 96, .	1.0	3

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91	Covariance and correlation estimators in bipartite complex systems with a double heterogeneity. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 053404.	0.9	3
92	Experimental quantum probing measurements with no knowledge of the system-probe interaction. Physical Review A, 2020, 102, .	1.0	3
93	Open quantum dynamics with singularities: Master equations and degree of non-Markovianity. Physical Review A, 2021, 104, .	1.0	3
94	Cold collisions in dissipative optical lattices. Journal of Optics B: Quantum and Semiclassical Optics, 2005, 7, R37-R52.	1.4	2
95	Scaling of non-Markovian Monte Carlo wave-function methods. Physical Review E, 2005, 71, 056701.	0.8	2
96	NON-MARKOVIAN DYNAMICS OF CAVITY LOSSES. International Journal of Quantum Information, 2009, 07, 41-47.	0.6	2
97	Identification of Clusters of Investors from Their Real Trading Activity in a Financial Market. SSRN Electronic Journal, 2011, , .	0.4	2
98	Quantum Zeno-type effect and non-Markovianity in a three-level system. Scientific Reports, 2016, 6, 39061.	1.6	2
99	Structure and evolution of a European Parliament via a network and correlation analysis. Physica A: Statistical Mechanics and Its Applications, 2016, 462, 167-185.	1.2	2
100	Non-Markovianity over Ensemble Averages in Quantum Complex Networks. Open Systems and Information Dynamics, 2017, 24, 1740018.	0.5	2
101	Engineering of Hong-Ou-Mandel interference with effective noise. Physical Review A, 2021, 104, .	1.0	2
102	Cold collisions in strong laser fields: partial wave analysis of magnesium collisions. European Physical Journal D, 2006, 40, 211-222.	0.6	1
103	Non-Markovian dynamics and quantum jumps. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq1	1 0.7843 0.2	314 rgBT /0 1
104	How News Affect the Trading Behavior of Different Categories of Investors in a Financial Market. SSRN Electronic Journal, 0, , .	0.4	1
105	Towards exact analytic calculation of electron gas. European Physical Journal D, 1996, 46, 2641-2642.	0.4	0
106	Quantum Zeno and anti-Zeno effects for the damped harmonic oscillator. Proceedings of SPIE, 2007, , .	0.8	0
107	Monte Carlo simulations of non-Markovian open systems. , 2007, , .		0
108	The 16th Central European Workshop on Quantum Optics. Physica Scripta, 2010, T140, 011001.	1.2	0

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109	Structure and Evolution of a European Parliament via a Network and Correlation Analysis. SSRN Electronic Journal, 2016, , .	0.4	0
110	Quantitative Analysis of Gender Stereotypes and Information Aggregation in a National Election. SSRN Electronic Journal, 0, , .	0.4	0
111	Memory assisted entanglement distribution in optical fibers. , 2014, , .		0
112	Patterns of Trading Profiles at the Nordic Stock Exchange. A Correlation-Based Approach SSRN Electronic Journal, 0, , .	0.4	0