

# GãktuÄ Karpát

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8372521/publications.pdf>

Version: 2024-02-01

34  
papers

1,103  
citations

516215

16  
h-index

433756

31  
g-index

34  
all docs

34  
docs citations

34  
times ranked

687  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum coherence and uncertainty in the anisotropic XY chain. <i>Physical Review B</i> , 2014, 90, .	1.1	177
2	Non-Markovianity through Accessible Information. <i>Physical Review Letters</i> , 2014, 112, .	2.9	138
3	Quantum correlations and coherence in spin-1 Heisenberg chains. <i>Physical Review B</i> , 2016, 93, .	1.1	113
4	Computational speed-up with a single qudit. <i>Scientific Reports</i> , 2015, 5, 14671.	1.6	83
5	Non-Markovianity through flow of information between a system and an environment. <i>Physical Review A</i> , 2014, 90, .	1.0	77
6	Correlation dynamics of qubit-qutrit systems in a classical dephasing environment. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 4166-4171.	0.9	66
7	Factorization and Criticality in the Anisotropic XY Chain via Correlations. <i>Entropy</i> , 2015, 17, 790-817.	1.1	53
8	Sudden change of quantum discord for a system of two qubits. <i>Physical Review A</i> , 2013, 88, .	1.0	51
9	Probing the degree of non-Markovianity for independent and common environments. <i>Physical Review A</i> , 2013, 88, .	1.0	49
10	Critical point estimation and long-range behavior in the one-dimensional XY model using thermal quantum and total correlations. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 2982-2988.	0.9	37
11	Dynamical memory effects in correlated quantum channels. <i>Physical Review A</i> , 2016, 94, .	1.0	33
12	Controlling entropic uncertainty bound through memory effects. <i>Europhysics Letters</i> , 2015, 111, 50006.	0.7	30
13	Quantum synchronization in a collision model. <i>Physical Review A</i> , 2019, 100, .	1.0	28
14	Quantum synchronization of few-body systems under collective dissipation. <i>Physical Review A</i> , 2020, 101, .	1.0	24
15	Entropic uncertainty relation under correlated dephasing channels. <i>Canadian Journal of Physics</i> , 2018, 96, 700-704.	0.4	19
16	Time-invariant entanglement and sudden death of nonlocality. <i>Physical Review A</i> , 2016, 94, .	1.0	17
17	Estimating the degree of non-Markovianity using machine learning. <i>Physical Review A</i> , 2021, 103, .	1.0	17
18	Invariant quantum discord in qubit-qutrit systems under local dephasing. <i>Physica Scripta</i> , 2013, T153, 014036.	1.2	16

#	ARTICLE	IF	CITATIONS
19	Inequivalence of correlation-based measures of non-Markovianity. <i>Physical Review A</i> , 2016, 94, .	1.0	16
20	Synchronization and non-Markovianity in open quantum systems. <i>Physical Review A</i> , 2021, 103, .	1.0	14
21	Time-invariant discord in dynamically decoupled systems. <i>Physical Review A</i> , 2015, 92, .	1.0	11
22	Disorder-free localization in quantum walks. <i>Physical Review A</i> , 2021, 103, .	1.0	10
23	Symmetry in the open-system dynamics of quantum correlations. <i>Scientific Reports</i> , 2017, 7, 8367.	1.6	4
24	Decoherence induced spontaneous symmetry breaking. <i>Optics Communications</i> , 2009, 282, 4460-4463.	1.0	3
25	Optimal local transformations of flip and exchange symmetric entangled states. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 376, 75-79.	0.9	3
26	Remote polarization-entanglement generation by local dephasing and frequency up-conversion. <i>Physical Review A</i> , 2017, 96, .	1.0	3
27	Non-Markovianity and bound states in quantum walks with a phase impurity. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 225302.	0.7	3
28	Time-invariant discord: high temperature limit and initial environmental correlations. <i>Quantum Information Processing</i> , 2018, 17, 1.	1.0	2
29	Invariant entanglement and generation of quantum correlations under global dephasing. <i>Canadian Journal of Physics</i> , 2018, 96, 705-710.	0.4	2
30	Continuous dynamical decoupling and decoherence-free subspaces for qubits with tunable interaction. <i>Quantum Information Processing</i> , 2019, 18, 1.	1.0	2
31	Entropy Production in Non-Markovian Collision Models: Information Backflow vs. System-Environment Correlations. <i>Entropy</i> , 2022, 24, 824.	1.1	2
32	Entanglement of hard-core bose gas in degenerate levels under local noise. <i>Physica C: Superconductivity and Its Applications</i> , 2010, 470, S945-S946.	0.6	0
33	Quantum correlations in a few-atom spin-1 Bose-Hubbard model. <i>Physica Scripta</i> , 2013, T153, 014008.	1.2	0
34	Frozen and Invariant Quantum Discord Under Local Dephasing Noise. <i>Quantum Science and Technology</i> , 2017, , 339-366.	1.5	0