

Mauro Paternostro

List of Publications by Year in descending order

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Version: 2024-02-01

291
papers

11,198
citations

26630

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293
all docs

293
docs citations

293
times ranked

5344
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum physics in space. <i>Physics Reports</i> , 2022, 951, 1-70.	25.6	38
2	Modeling mechanical equilibration processes of closed quantum systems: A case study. <i>Physical Review E</i> , 2022, 105, 014127.	2.1	0
3	Informational Steady States and Conditional Entropy Production in Continuously Monitored Systems. <i>PRX Quantum</i> , 2022, 3, .	9.2	11
4	Nonequilibrium Quantum Thermodynamics of a Particle Trapped in a Controllable Time-Varying Potential. <i>PRX Quantum</i> , 2022, 3, .	9.2	6
5	Present status and future challenges of non-interferometric tests of collapse models. <i>Nature Physics</i> , 2022, 18, 243-250.	16.7	40
6	Informational steady states and conditional entropy production in continuously monitored systems: The case of Gaussian systems. <i>Physical Review A</i> , 2022, 105, .	2.5	4
7	Work extraction from coherently activated maps via quantum switch. <i>Physical Review A</i> , 2022, 105, .	2.5	22
8	A tutorial on optimal control and reinforcement learning methods for quantum technologies. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022, 434, 128054.	2.1	22
9	Optomechanics for quantum technologies. <i>Nature Physics</i> , 2022, 18, 15-24.	16.7	100
10	Harnessing nonadiabatic excitations promoted by a quantum critical point: Quantum battery and spin squeezing. <i>Physical Review Research</i> , 2022, 4, .	3.6	6
11	Entanglement transfer, accumulation and retrieval via quantum-walk-based qubitâ€“qudit dynamics. <i>New Journal of Physics</i> , 2021, 23, 023012.	2.9	10
12	Prospects for near-field interferometric tests of collapse models. <i>Physical Review A</i> , 2021, 103, .	2.5	4
13	An optomechanical platform for quantum hypothesis testing for collapse models. <i>New Journal of Physics</i> , 2021, 23, 043022.	2.9	5
14	Distributing entanglement with separable states: assessment of encoding and decoding imperfections. <i>Quantum Information Processing</i> , 2021, 20, 1.	2.2	0
15	Mixed state entanglement classification using artificial neural networks. <i>New Journal of Physics</i> , 2021, 23, 063033.	2.9	9
16	Quantum technologies in space. <i>Experimental Astronomy</i> , 2021, 51, 1677-1694.	3.7	23
17	Enhanced detection techniques of orbital angular momentum states in the classical and quantum regimes. <i>New Journal of Physics</i> , 2021, 23, 073014.	2.9	11
18	Testing the foundation of quantum physics in space via Interferometric and non-interferometric experiments with mesoscopic nanoparticles. <i>Communications Physics</i> , 2021, 4, .	5.3	28

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19	Quantum Darwinism in a Composite System: Objectivity versus Classicality. Entropy, 2021, 23, 995.	2.2	13
20	Versatile Atomic Magnetometry Assisted by Bayesian Inference. Physical Review Applied, 2021, 16, .	3.8	5
21	Test quantum mechanics in space “invest US\$1 billion. Nature, 2021, 596, 32-34.	27.8	5
22	Irreversible entropy production: From classical to quantum. Reviews of Modern Physics, 2021, 93, .	45.6	157
23	Reinforcement learning-enhanced protocols for coherent population-transfer in three-level quantum systems. New Journal of Physics, 2021, 23, 093035.	2.9	14
24	Quantum Darwinism in a structured spin environment. Physics Letters, Section A: General, Atomic and Solid State Physics, 2021, 416, 127675.	2.1	12
25	Reinforcement Learning Approach to Nonequilibrium Quantum Thermodynamics. Physical Review Letters, 2021, 126, 020601.	7.8	29
26	Opto-Mechanical Test of Collapse Models. Fundamental Theories of Physics, 2021, , 205-215.	0.3	3
27	End-point measurement approach to assess quantum coherence in energy fluctuations. Physical Review A, 2021, 104, .	2.5	18
28	Real-time optimization of quantum state engineering protocol. , 2021, , .		0
29	Dynamical learning of a photonics quantum-state engineering process. Advanced Photonics, 2021, 3, .	11.8	12
30	Programmable linear quantum networks with a multimode fibre. Nature Photonics, 2020, 14, 139-142.	31.4	67
31	Experimental Assessment of Entropy Production in a Continuously Measured Mechanical Resonator. Physical Review Letters, 2020, 125, 080601.	7.8	25
32	Experimental characterization of the energetics of quantum logic gates. Npj Quantum Information, 2020, 6, .	6.7	24
33	Entropy production in continuously measured Gaussian quantum systems. Npj Quantum Information, 2020, 6, .	6.7	24
34	Quantum Work Statistics with Initial Coherence. Entropy, 2020, 22, 1223.	2.2	9
35	Quantum State Engineering by Shortcuts to Adiabaticity in Interacting Spin-Boson Systems. Physical Review Letters, 2020, 124, 180401.	7.8	14
36	Measurement-based cooling of a nonlinear mechanical resonator. Physical Review B, 2020, 101, .	3.2	14

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37	Entanglement classification via neural network quantum states. <i>New Journal of Physics</i> , 2020, 22, 045001.	2.9	31
38	A macrorealistic test in hybrid quantum optomechanics. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 075401.	1.5	2
39	Machine Learning-Based Classification of Vector Vortex Beams. <i>Physical Review Letters</i> , 2020, 124, 160401.	7.8	88
40	Observable quantum entanglement due to gravity. <i>Npj Quantum Information</i> , 2020, 6, .	6.7	100
41	Supervised learning of time-independent Hamiltonians for gate design. <i>New Journal of Physics</i> , 2020, 22, 065001.	2.9	15
42	Ultrafast critical ground state preparation via bang-bang protocols. <i>New Journal of Physics</i> , 2020, 22, 093050.	2.9	6
43	Implications of non-Markovian dynamics on information-driven engine. <i>Journal of Physics Communications</i> , 2020, 4, 085016.	1.2	10
44	Anti-Zeno-based dynamical control of the unfolding of quantum Darwinism. <i>Physical Review Research</i> , 2020, 2, .	3.6	17
45	Shortcut-to-adiabaticity quantum Otto refrigerator. <i>Physical Review Research</i> , 2020, 2, .	3.6	32
46	Nonequilibrium readiness and precision of Gaussian quantum thermometers. <i>Physical Review Research</i> , 2020, 2, .	3.6	14
47	AEDGE: Atomic Experiment for Dark Matter and Gravity Exploration in Space. <i>EPJ Quantum Technology</i> , 2020, 7, .	6.3	190
48	Non-resonant interactions and multipartite entanglement in a system of coupled cavities. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 949.	2.1	1
49	Macroscopic quantumness of optically conditioned mechanical systems. <i>New Journal of Physics</i> , 2020, 22, 093075.	2.9	0
50	Assessing the role of initial correlations in the entropy production rate for nonequilibrium harmonic dynamics. <i>Physical Review Research</i> , 2020, 2, .	3.6	7
51	Tests of quantum gravity-induced non-locality: Hamiltonian formulation of a non-local harmonic oscillator. <i>Classical and Quantum Gravity</i> , 2019, 36, 155006.	4.0	6
52	Role of information backflow in the emergence of quantum Darwinism. <i>Physical Review A</i> , 2019, 100, .	2.5	23
53	Testing the gravitational field generated by a quantum superposition. <i>New Journal of Physics</i> , 2019, 21, 093052.	2.9	55
54	Energetic cost of quantum control protocols. <i>New Journal of Physics</i> , 2019, 21, 103048.	2.9	32

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55	Out of equilibrium thermodynamics of quantum harmonic chains. Journal of Statistical Mechanics: Theory and Experiment, 2019, 2019, 104014.	2.3	3
56	Talbot-Lau effect beyond the point-particle approximation. Physical Review A, 2019, 100, .	2.5	15
57	Daemonic Ergotropy: Generalised Measurements and Multipartite Settings. Entropy, 2019, 21, 771.	2.2	10
58	Thermodynamics of Weakly Coherent Collisional Models. Physical Review Letters, 2019, 123, 140601.	7.8	66
59	Spin-Boson Model as A Simulator of Non-Markovian Multiphoton Jaynes-Cummings Models. Symmetry, 2019, 11, 695.	2.2	10
60	Ultra-cold single-atom quantum heat engines. New Journal of Physics, 2019, 21, 063019.	2.9	22
61	Quantum work statistics and resource theories: Bridging the gap through Rényi divergences. Physical Review E, 2019, 99, 050101.	2.1	14
62	Wigner entropy production and heat transport in linear quantum lattices. Physical Review A, 2019, 99, .	2.5	11
63	Quantum simulation of multiphoton and nonlinear dissipative spin-boson models. Physical Review A, 2019, 99, .	2.5	14
64	The role of quantum coherence in non-equilibrium entropy production. Npj Quantum Information, 2019, 5, .	6.7	115
65	Multipartite entanglement swapping and mechanical cluster states. Physical Review A, 2019, 99, .	2.5	8
66	Collisional unfolding of quantum Darwinism. Physical Review A, 2019, 99, .	2.5	24
67	Shortcut-to-adiabaticity Otto engine: A twist to finite-time thermodynamics. Physical Review E, 2019, 99, 022110.	2.1	48
68	Reading a Qubit Quantum State with a Quantum Meter: Time Unfolding of Quantum Darwinism and Quantum Information Flux. Open Systems and Information Dynamics, 2019, 26, 1950023.	1.2	6
69	An out-of-equilibrium non-Markovian quantum heat engine. Quantum Science and Technology, 2019, 4, 025002.	5.8	51
70	Robust multipartite entanglement generation via a collision model. Physical Review A, 2019, 99, .	2.5	32
71	Experimental Engineering of Arbitrary Qudit States with Discrete-Time Quantum Walks. Physical Review Letters, 2019, 122, 020503.	7.8	68
72	Experimental Quantum Darwinism simulator using photonic cluster states. , 2019, , .		1

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73	Engineering of Quantum States through Quantum Walk in the Angular Momentum. , 2019, , .		0
74	Phase-space interference in extensive and nonextensive quantum heat engines. Physical Review E, 2018, 97, 042127.	2.1	15
75	Non-Markovian quantum processes: Complete framework and efficient characterization. Physical Review A, 2018, 97, .	2.5	202
76	Operational Markov Condition for Quantum Processes. Physical Review Letters, 2018, 120, 040405.	7.8	157
77	The entropic cost of quantum generalized measurements. Npj Quantum Information, 2018, 4, .	6.7	14
78	Characterizing Irreversibility in Open Quantum Systems. Fundamental Theories of Physics, 2018, , 395-410.	0.3	7
79	Probing quantum features of photosynthetic organisms. Npj Quantum Information, 2018, 4, .	6.7	25
80	Unconditional preparation of nonclassical states via linear-and-quadratic optomechanics. Physical Review A, 2018, 98, .	2.5	34
81	Unitary unraveling for the dissipative continuous spontaneous localization model: Application to optomechanical experiments. Physical Review A, 2018, 98, .	2.5	18
82	Approximate supervised learning of quantum gates via ancillary qubits. International Journal of Quantum Information, 2018, 16, 1840004.	1.1	0
83	Nonequilibrium thermodynamics of continuously measured quantum systems: A circuit QED implementation. Physical Review B, 2018, 98, .	3.2	15
84	Experimental Determination of Irreversible Entropy Production in out-of-Equilibrium Mesoscopic Quantum Systems. Physical Review Letters, 2018, 121, 160604.	7.8	58
85	Irreversibility at zero temperature from the perspective of the environment. Physical Review A, 2018, 97, .	2.5	10
86	Spin-phase-space-entropy production. Physical Review A, 2018, 97, .	2.5	17
87	Experimental signature of quantum Darwinism in photonic cluster states. Physical Review A, 2018, 98, .	2.5	35
88	Robust quantum state engineering through coherent localization in biased-coin quantum walks. EPJ Quantum Technology, 2018, 5, 1.	6.3	5
89	Non-interferometric test of the continuous spontaneous localization model based on rotational optomechanics. New Journal of Physics, 2018, 20, 083022.	2.9	41
90	Information-reality complementarity in photonic weak measurements. Physical Review A, 2018, 97, .	2.5	12

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91	Einstein-Podolsky-Rosen steering and quantum steering ellipsoids: Optimal two-qubit states and projective measurements. <i>Physical Review A</i> , 2017, 95, .	2.5	22
92	A photonic Carnot engine powered by a spin-star network. <i>Europhysics Letters</i> , 2017, 117, 50002.	2.0	41
93	On chip analysis of path-polarization hyperentangled cluster photon states. , 2017, , .		1
94	Quantum-limited estimation of continuous spontaneous localization. <i>Physical Review A</i> , 2017, 95, .	2.5	15
95	Experimental extractable work-based multipartite separability criteria. <i>Npj Quantum Information</i> , 2017, 3, .	6.7	25
96	Divisible quantum dynamics satisfies temporal Tsirelson's bound. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 055302.	2.1	10
97	Nonequilibrium quantum bounds to Landauer's principle: Tightness and effectiveness. <i>Physical Review A</i> , 2017, 96, .	2.5	7
98	Global and local thermometry schemes in coupled quantum systems. <i>New Journal of Physics</i> , 2017, 19, 103003.	2.9	29
99	Revealing Nonclassicality of Inaccessible Objects. <i>Physical Review Letters</i> , 2017, 119, 120402.	7.8	64
100	Daemonic ergotropy: enhanced work extraction from quantum correlations. <i>Npj Quantum Information</i> , 2017, 3, .	6.7	89
101	Non-Markovianity, coherence, and system-environment correlations in a long-range collision model. <i>Physical Review A</i> , 2017, 96, .	2.5	56
102	Detecting Gaussian entanglement via extractable work. <i>Physical Review A</i> , 2017, 96, .	2.5	13
103	Spin Entanglement Witness for Quantum Gravity. <i>Physical Review Letters</i> , 2017, 119, 240401.	7.8	415
104	Wigner Entropy Production Rate. <i>Physical Review Letters</i> , 2017, 118, 220601.	7.8	68
105	Full counting statistics approach to the quantum non-equilibrium Landauer bound. <i>New Journal of Physics</i> , 2017, 19, 103038.	2.9	14
106	Quantum state engineering using one-dimensional discrete-time quantum walks. <i>Physical Review A</i> , 2017, 96, .	2.5	29
107	Experimental nonlocality-based network diagnostics of multipartite entangled states. <i>Scientific Reports</i> , 2017, 7, 17122.	3.3	1
108	Structure of Multipartite Entanglement in Random Cluster-Like Photonic Systems. <i>Entropy</i> , 2017, 19, 473.	2.2	1

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109	Vibrational assisted conduction in a molecular wire. <i>Quantum Science and Technology</i> , 2017, 2, 025006.	5.8	5
110	Parametric feedback cooling of levitated optomechanics in a parabolic mirror trap. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 1421.	2.1	95
111	Non-equilibrium thermodynamics of harmonically trapped bosons. <i>New Journal of Physics</i> , 2016, 18, 103035.	2.9	30
112	Thermodynamics of trajectories and local fluctuation theorems for harmonic quantum networks. <i>New Journal of Physics</i> , 2016, 18, 013009.	2.9	13
113	Violation of Bell inequalities in larger Hilbert spaces: robustness and challenges. <i>New Journal of Physics</i> , 2016, 18, 013021.	2.9	10
114	Implications of non-Markovian quantum dynamics for the Landauer bound. <i>New Journal of Physics</i> , 2016, 18, 123018.	2.9	68
115	Dynamics of the driven Dicke model: Time dependent mean field and quantum fluctuations. , 2016, , .		0
116	Performance of dynamical decoupling in bosonic environments and under pulse-timing fluctuations. <i>Physical Review A</i> , 2016, 94, .	2.5	3
117	Engineering single-phonon number states of a mechanical oscillator via photon subtraction. <i>Physical Review A</i> , 2016, 94, .	2.5	11
118	Equilibration and nonclassicality of a double-well potential. <i>Scientific Reports</i> , 2016, 6, 19730.	3.3	12
119	Macroscopic Quantum Resonators (MAQRO): 2015 update. <i>EPJ Quantum Technology</i> , 2016, 3, .	6.3	77
120	Testing wave-function-collapse models using parametric heating of a trapped nanosphere. <i>Physical Review A</i> , 2016, 94, .	2.5	56
121	Determining stationary-state quantum properties directly from system-environment interactions. <i>Physical Review A</i> , 2016, 94, .	2.5	18
122	Excessive distribution of quantum entanglement. <i>Physical Review A</i> , 2016, 93, .	2.5	10
123	Nonlinearity as a resource for nonclassicality in anharmonic systems. <i>Physical Review A</i> , 2016, 93, .	2.5	29
124	Nonequilibrium properties of trapped ions under sudden application of a laser. <i>Physical Review A</i> , 2016, 94, .	2.5	2
125	Work extraction and energy storage in the Dicke model. <i>Physical Review E</i> , 2016, 94, 052122.	2.1	37
126	Quantum state reconstruction of an oscillator network in an optomechanical setting. <i>Physical Review A</i> , 2016, 94, .	2.5	9

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127	Thermodynamics of trajectories of a quantum harmonic oscillator coupled to Nbaths. Physical Review A, 2015, 92, .	2.5	10
128	Limitations of a measurement-assisted optomechanical route to quantum macroscopicity of superposition states. Physical Review A, 2015, 92, .	2.5	7
129	Landauer's Principle in Multipartite Open Quantum System Dynamics. Physical Review Letters, 2015, 115, 120403.	7.8	85
130	Irreversibility and the Arrow of Time in a Quenched Quantum System. Physical Review Letters, 2015, 115, 190601.	7.8	105
131	Work statistics, irreversible heat and correlations build-up in joining two spin chains. Physica Scripta, 2015, T165, 014023.	2.5	15
132	Experimental linear-optics simulation of multipartite non-locality in the ground state of a quantum Ising ring. Scientific Reports, 2015, 4, 7184.	3.3	7
133	Nonlinearity and nonclassicality in a nanomechanical resonator. EPJ Quantum Technology, 2015, 2, .	6.3	20
134	Dynamical symmetries and crossovers in a three-spin system with collective dissipation. New Journal of Physics, 2015, 17, 015010.	2.9	7
135	Nonequilibrium Quantum Landauer Principle. Physical Review Letters, 2015, 114, 060602.	7.8	94
136	Non-Markovian qubit dynamics in a circuit-QED setup. Physical Review A, 2015, 91, .	2.5	12
137	Localizationlike effect in two-dimensional alternate quantum walks with periodic coin operations. Physical Review A, 2015, 91, .	2.5	13
138	Squeezing of mechanical motion via qubit-assisted control. New Journal of Physics, 2015, 17, 013034.	2.9	9
139	Out-of-equilibrium thermodynamics of quantum optomechanical systems. New Journal of Physics, 2015, 17, 035016.	2.9	40
140	Cavity-aided quantum parameter estimation in a bosonic double-well Josephson junction. Physical Review A, 2015, 91, .	2.5	11
141	Thermal transport in out-of-equilibrium quantum harmonic chains. Physical Review E, 2015, 91, 042116.	2.1	32
142	Shortcut to Adiabaticity in the Lipkin-Meshkov-Glick Model. Physical Review Letters, 2015, 114, 177206.	7.8	101
143	Macroscopicity in an optomechanical matter-wave interferometer. Optics Communications, 2015, 337, 53-56.	2.1	1
144	Transitionless quantum driving in open quantum systems. New Journal of Physics, 2014, 16, 053017.	2.9	54

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145	Hybrid optomechanics for Quantum Technologies. Quantum Measurements and Quantum Metrology, 2014, 2, .	3.3	31
146	Assessing the Nonequilibrium Thermodynamics in a Quenched Quantum Many-Body System via Single Projective Measurements. Physical Review X, 2014, 4, .	8.9	68
147	Competition between memory-keeping and memory-erasing decoherence channels. Physical Review A, 2014, 90, .	2.5	24
148	Detecting the work statistics through Ramsey-like interferometry. International Journal of Quantum Information, 2014, 12, 1461007.	1.1	14
149	Characterization of Bose-Hubbard models with quantum nondemolition measurements. Physical Review A, 2014, 90, .	2.5	19
150	Non-Markovianity and system-environment correlations in a microscopic collision model. Physical Review A, 2014, 89, .	2.5	79
151	Experimental Reconstruction of Work Distribution and Study of Fluctuation Relations in a Closed Quantum System. Physical Review Letters, 2014, 113, 140601.	7.8	288
152	Dynamics of interacting Dicke model in a coupled-cavity array. Physical Review A, 2014, 90, .	2.5	13
153	Proposal for a Noninterferometric Test of Collapse Models in Optomechanical Systems. Physical Review Letters, 2014, 112, .	7.8	97
154	Reconfigurable Long-Range Phonon Dynamics in Optomechanical Arrays. Physical Review Letters, 2014, 112, 133604.	7.8	66
155	Clued trees algorithm under phase damping. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 338-343.	2.1	4
156	Long-range multipartite entanglement close to a first-order quantum phase transition. Physical Review A, 2014, 89, .	2.5	27
157	More bang for your buck: Super-adiabatic quantum engines. Scientific Reports, 2014, 4, 6208.	3.3	232
158	Quantum State Transfer with Limited Resources. , 2014, , 123-147.		0
159	Quantum feedback control of mechanical squeezing. , 2014, , .		0
160	A no-go result on the purification of quantum states. Scientific Reports, 2013, 3, 1387.	3.3	5
161	Phase-space behavior and conditional dynamics of an optomechanical system. Physical Review A, 2013, 88, .	2.5	1
162	Nonclassicality of optomechanical devices in experimentally realistic operating regimes. Physical Review A, 2013, 88, .	2.5	19

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163	Violation of Bell's inequalities with preamplified homodyne detection. <i>Physical Review A</i> , 2013, 87, .	2.5	10
164	Experimental Distribution of Entanglement with Separable Carriers. <i>Physical Review Letters</i> , 2013, 111, 230504.	7.8	62
165	Testing genuine multipartite nonlocality in phase space. <i>Physical Review A</i> , 2013, 87, .	2.5	14
166	Tuning non-Markovianity by spin-dynamics control. <i>Physical Review A</i> , 2013, 87, .	2.5	28
167	Selectable linear or quadratic coupling in an optomechanical system. <i>Physical Review A</i> , 2013, 87, .	2.5	35
168	Global quantum correlations in finite-size spin chains. <i>New Journal of Physics</i> , 2013, 15, 043033.	2.9	59
169	Enhancing non-classicality in mechanical systems. <i>New Journal of Physics</i> , 2013, 15, 033023.	2.9	17
170	Entanglement Replication in Driven Dissipative Many-Body systems. <i>Physical Review Letters</i> , 2013, 110, 040503.	7.8	28
171	Measuring the Characteristic Function of the Work Distribution. <i>Physical Review Letters</i> , 2013, 110, 230602.	7.8	200
172	Effective cutting of a quantum spin chain by bond impurities. <i>Physical Review A</i> , 2013, 88, .	2.5	10
173	Interaction-induced correlations and non-Markovianity of quantum dynamics. <i>Physical Review A</i> , 2013, 87, .	2.5	37
174	Geometrical characterization of non-Markovianity. <i>Physical Review A</i> , 2013, 88, .	2.5	212
175	Optomechanical interface for probing matter-wave coherence. <i>Scientific Reports</i> , 2013, 3, 3378.	3.3	6
176	Tomographic characterization of correlations in a photonic tripartite state. <i>New Journal of Physics</i> , 2012, 14, 085006.	2.9	6
177	Driven optomechanical systems for mechanical entanglement distribution. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 154010.	1.5	9
178	Entanglement control in hybrid optomechanical systems. <i>Physical Review A</i> , 2012, 86, .	2.5	52
179	Non-Markovian effects on the nonlocality of a qubit-oscillator system. <i>Physical Review A</i> , 2012, 85, .	2.5	6
180	Experimental Quantum Networking Protocols via Four-Qubit Hyperentangled Dicke States. <i>Physical Review Letters</i> , 2012, 109, 173604.	7.8	38

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181	Linear Optics Simulation of Quantum Non-Markovian Dynamics. Scientific Reports, 2012, 2, 968.	3.3	103
182	ESTIMATION OF PURITY FOR A QUANTUM HARMONIC OSCILLATOR INITIALLY PREPARED IN A DISPLACED THERMAL STATE. International Journal of Quantum Information, 2012, 10, 1241015.	1.1	2
183	When Casimir meets Kibble-Zurek. Physica Scripta, 2012, T151, 014071.	2.5	1
184	Quantum Discord Bounds the Amount of Distributed Entanglement. Physical Review Letters, 2012, 109, 070501.	7.8	156
185	Multipartite optomechanical entanglement from competing nonlinearities. Physical Review A, 2012, 86, .	2.5	40
186	Qubit-assisted thermometry of a quantum harmonic oscillator. Physical Review A, 2012, 86, .	2.5	64
187	Photon Production from the Vacuum Close to the Superradiant Transition: Linking the Dynamical Casimir Effect to the Kibble-Zurek Mechanism. Physical Review Letters, 2012, 108, 093603.	7.8	22
188	Geometric-phase backaction in a mesoscopic qubit-oscillator system. Physical Review A, 2012, 85, .	2.5	24
189	Critical assessment of two-qubit post-Markovian master equations. Physical Review A, 2012, 85, .	2.5	18
190	Emergent Thermodynamics in a Quenched Quantum Many-Body System. Physical Review Letters, 2012, 109, 160601.	7.8	119
191	Transferring entanglement to the steady state of flying qubits. Physical Review A, 2012, 86, .	2.5	7
192	Dynamical role of system-environment correlations in non-Markovian dynamics. Physical Review A, 2012, 86, .	2.5	66
193	Using macroscopic entanglement to close the detection loophole in Bell-inequality tests. Physical Review A, 2012, 85, .	2.5	14
194	Quantum circuits for spin and flavor degrees of freedom of quarks forming nucleons. Quantum Information Processing, 2012, 11, 67-75.	2.2	9
195	Entanglement detection in hybrid optomechanical systems. Physical Review A, 2011, 83, .	2.5	88
196	Testing quantum contextuality of continuous-variable states. Physical Review A, 2011, 83, .	2.5	11
197	Memory-keeping effects and forgetfulness in the dynamics of a qubit coupled to a spin chain. Physical Review A, 2011, 83, .	2.5	88
198	Propagation of nonclassical correlations across a quantum spin chain. Physical Review A, 2011, 84, .	2.5	49

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199	Tripartite nonlocality and continuous-variable entanglement in thermal states of trapped ions. <i>Physical Review A</i> , 2011, 84, .	2.5	15
200	Orthogonality catastrophe as a consequence of qubit embedding in an ultracold Fermi gas. <i>Physical Review A</i> , 2011, 84, .	2.5	99
201	Probing mechanical quantum coherence with an ultracold-atom meter. <i>Physical Review A</i> , 2011, 84, .	2.5	3
202	Simple trapped-ion architecture for high-fidelity Toffoli gates. <i>Physical Review A</i> , 2011, 84, .	2.5	12
203	Structural change of vortex patterns in anisotropic Bose-Einstein condensates. <i>Physical Review A</i> , 2011, 83, .	2.5	12
204	Hybrid methods for witnessing entanglement in a microscopic-macroscopic system. <i>Physical Review A</i> , 2011, 84, .	2.5	23
205	Faithful nonclassicality indicators and extremal quantum correlations in two-qubit states. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 352002.	2.1	73
206	Non-locality of two ultracold trapped atoms. <i>New Journal of Physics</i> , 2011, 13, 023016.	2.9	7
207	Engineering Nonclassicality in a Mechanical System through Photon Subtraction. <i>Physical Review Letters</i> , 2011, 106, 183601.	7.8	46
208	Role of environmental correlations in the non-Markovian dynamics of a spin system. <i>Physical Review A</i> , 2011, 84, .	2.5	38
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