Dario Poletti

List of Publications by Year
in descending order

76 papers	2,430 citations	201385 27 h-index	205818 48 g-index
76 all docs	76 docs citations	76 times ranked	2039 citing authors

#	Article	IF	Citations
1	Transport and spectral properties of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>X</mml:mi><mml:mi>X</mml:mi><mml:mo>+</mml:mo> diode and stability to dephasing. Physical Review E, 2022, 105, 024120.	0.8	5
2	Thermopower in a boundary-driven bosonic ladder in the presence of a gauge field. Physical Review B, 2022, 105, .	1.1	0
3	Typicality of nonequilibrium quasi-steady currents. Physical Review A, 2022, 105, .	1.0	7
4	Scheme for automatic differentiation of complex loss functions with applications in quantum physics. Physical Review E, 2021, 103, 013309.	0.8	13
5	Magnetisation Transport in XXZ Spin Chains. , 2021, , 207-218.		0
6	Quantum MonteÂCarlo Simulations of the 2D Su-Schrieffer-Heeger Model. Physical Review Letters, 2021, 126, 017601.	2.9	36
7	Localization-delocalization effects of a delocalizing dissipation on disordered XXZ spin chains. Chaos, 2021, 31, 033133.	1.0	1
8	Giant rectification in segmented, strongly interacting spin chains despite the presence of perturbations. Physical Review E, 2021, 103, 052143.	0.8	7
9	From the eigenstate thermalization hypothesis to algebraic relaxation of OTOCs in systems with conserved quantities. Physical Review B, 2021, 104, .	1.1	13
10	Analysis of a density matrix renormalization group approach for transport in open quantum systems. Computer Physics Communications, 2021, 267, 108060.	3.0	7
11	Thermodynamic performance of a periodically driven harmonic oscillator correlated with the baths. Physical Review E, 2021, 104, 054118.	0.8	1
12	Melting of the critical behavior of a Tomonaga-Luttinger liquid under dephasing. Physical Review B, 2020, 102, .	1.1	9
13	Giant Spin Current Rectification Due to the Interplay of Negative Differential Conductance and a Non-Uniform Magnetic Field. Entropy, 2020, 22, 1311.	1.1	7
14	Steady-state quantum transport through an anharmonic oscillator strongly coupled to two heat reservoirs. Physical Review E, 2020, 102, 012155.	0.8	13
15	Single-atom energy-conversion device with a quantum load. Npj Quantum Information, 2020, 6, .	2.8	47
16	Transfer learning for scalability of neural-network quantum states. Physical Review E, 2020, 101, 053301.	0.8	26
17	Interaction-impeded relaxation in the presence of finite-temperature baths. Physical Review A, 2020, 101, .	1.0	2
18	Tensor-network-based machine learning of non-Markovian quantum processes. Physical Review A, 2020, 102, .	1.0	30

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19	Heat, particle, and chiral currents in a boundary driven bosonic ladder in the presence of a gauge field. Physical Review B, 2020, 102, .	1.1	5
20	Thermalization with detailed-balanced two-site Lindblad dissipators. Physical Review E, 2019, 100, 022111.	0.8	7
21	Energy Current Rectification and Mobility Edges. Physical Review Letters, 2019, 123, 020603.	2.9	25
22	Matrix product states with adaptive global symmetries. Physical Review B, 2019, 100, .	1.1	5
23	Evolution of two-time correlations in dissipative quantum spin systems: Aging and hierarchical dynamics. Physical Review B, 2019, 100, .	1.1	15
24	General-Purpose Quantum Circuit Simulator with Projected Entangled-Pair States and the Quantum Supremacy Frontier. Physical Review Letters, 2019, 123, 190501.	2.9	57
25	Heat current rectification in segmented <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>X</mml:mi><mml:mi>X</mml:mi><mml:mi>Z</mml:mi> chains. Physical Review E, 2019, 99, 032136.	0.8	8
26	Transport and Energetic Properties of a Ring of Interacting Spins Coupled to Heat Baths. Entropy, 2019, 21, 228.	1.1	7
27	Towards Generation of Cat States in Trapped Ions Set-Ups via FAQUAD Protocols and Dynamical Decoupling. Entropy, 2019, 21, 1207.	1.1	2
28	Many-body open quantum systems beyond Lindblad master equations. Physical Review A, 2019, 99, .	1.0	28
29	Interplay of interaction and disorder in the steady state of an open quantum system. Physical Review B, 2018, 97, .	1.1	11
30	Period doubling in period-one steady states. Physical Review E, 2018, 97, 020202.	0.8	39
31	Light-Cone and Diffusive Propagation of Correlations in a Many-Body Dissipative System. Physical Review Letters, 2018, 120, 020401.	2.9	27
32	Irreversible work reduction by disorder in many-body quantum systems. Physical Review E, 2018, 98, .	0.8	1
33	Analytical solutions for a boundary-driven <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>X</mml:mi><mml:mi>Y</mml:mi></mml:mrow> chain. Physical Review A, 2018, 98, .	1.0	12
34	Oscillation and decay of particle current due to a quench and dephasing in an interacting fermionic system. European Physical Journal: Special Topics, 2018, 227, 313-322.	1.2	2
35	Matrix product operators for sequence-to-sequence learning. Physical Review E, 2018, 98, .	0.8	34
36	Stable-unstable transition for a Bose-Hubbard chain coupled to an environment. Physical Review A, 2018, 97, .	1.0	16

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37	Perfect Diode in Quantum Spin Chains. Physical Review Letters, 2018, 120, 200603.	2.9	59
38	Converting heat into directed transport on a tilted lattice. Physical Review E, 2017, 95, 030102.	0.8	6
39	Dissipatively driven hardcore bosons steered by a gauge field. Physical Review B, 2017, 96, .	1.1	21
40	Kinetic Monte Carlo approach to nonequilibrium bosonic systems. Physical Review B, 2017, 96, .	1.1	4
41	Classical counterparts of quantum attractors in generic dissipative systems. Physical Review E, 2017, 95, 062202.	0.8	6
42	Solutions for bosonic and fermionic dissipative quadratic open systems. Physical Review A, 2017, 95, .	1.0	34
43	Minimal motor for powering particle motion from spin imbalance. Physical Review E, 2017, 95, 062143.	0.8	7
44	Asymptotic Floquet states of open quantum systems: the role of interaction. New Journal of Physics, 2017, 19, 083011.	1.2	53
45	Geometry of system-bath coupling and gauge fields in bosonic ladders: Manipulating currents and driving phase transitions. Physical Review A, 2016, 94, .	1.0	18
46	Occurrence of discontinuities in the performance of finite-time quantum Otto cycles. Physical Review E, 2016, 94, 012137.	0.8	32
47	Cost of counterdiabatic driving and work output. Physical Review A, 2016, 94, .	1.0	73
48	Enhanced thermoelectric performance of solution-derived bismuth telluride based nanocomposites via liquid-phase Sintering. Nano Energy, 2016, 30, 630-638.	8.2	78
49	Operator-based derivation of phonon modes and characterization of correlations for trapped ions at zero and finite temperature. Physical Review B, 2016, 94, .	1.1	2
50	Finite-time Landau-Zener processes and counterdiabatic driving in open systems: Beyond Born, Markov, and rotating-wave approximations. Physical Review A, 2016, 93, .	1.0	29
51	Tuning energy transport using interacting vibrational modes. Physical Review A, 2015, 92, .	1.0	11
52	Quantum statistics and the performance of engine cycles. Physical Review E, 2015, 92, 012110.	0.8	40
53	Density-dependent synthetic magnetism for ultracold atoms in optical lattices. Physical Review B, 2015, 92, .	1.1	19
54	Two-Time Correlations Probing the Dynamics of Dissipative Many-Body Quantum Systems: Aging and Fast Relaxation. Physical Review Letters, 2015, 114, 170401.	2.9	48

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55	Density-Dependent Synthetic Gauge Fields Using Periodically Modulated Interactions. Physical Review Letters, 2014, 113, 215303.	2.9	79
56	Work and efficiency of quantum Otto cycles in power-law trapping potentials. Physical Review E, 2014, 90, 012145.	0.8	29
57	Exploring Unconventional Hubbard Models with Doubly Modulated Lattice Gases. Physical Review Letters, 2014, 113, 183002.	2.9	39
58	Dissipative quantum dynamics of fermions in optical lattices: A slave-spin approach. Physical Review B, 2014, 90, .	1.1	11
59	Emergence of Glasslike Dynamics for Dissipative and Strongly Interacting Bosons. Physical Review Letters, 2013, 111, 195301.	2.9	62
60	Emergence of spatially extended pair coherence through incoherent local environmental coupling. Physical Review A, 2013, 87, .	1.0	22
61	Slow quench dynamics of Mott-insulating regions in a trapped Bose gas. Physical Review A, 2012, 85, .	1.0	36
62	Light-cone-like spreading of correlations in a quantum many-body system. Nature, 2012, 481, 484-487.	13.7	645
63	Propagation front of correlations in an interacting Bose gas. Physical Review A, 2012, 85, .	1.0	75
64	Interaction-Induced Impeding of Decoherence and Anomalous Diffusion. Physical Review Letters, 2012, 109, 045302.	2.9	87
65	Topological quantum phase transitions of attractive spinless fermions in a honeycomb lattice. Europhysics Letters, 2011, 93, 37008.	0.7	16
66	Slow quench dynamics of periodically driven quantum gases. Physical Review A, 2011, 84, .	1.0	46
67	Controlled Transport of Matter Waves in Two-Dimensional Optical Lattices. Physical Review Letters, 2010, 105, 090401.	2.9	13
68	Comment on â€œCoherent Ratchets in Driven Bose-Einstein Condensatesâ€• Physical Review Letters, 2010, 104, 228901; author reply 228902.	2.9	7
69	Steering Bose-Einstein Condensates despite Time Symmetry. Physical Review Letters, 2009, 102, 130604.	2.9	25
70	Ratchet-induced matterâ€“wave transport and soliton collisions in Boseâ€“Einstein condensates. Physica D: Nonlinear Phenomena, 2009, 238, 1338-1344.	1.3	18
71	Dynamics of Matter-Wave Solitons in a Ratchet Potential. Physical Review Letters, 2008, 101, 150403.	2.9	55
72	Interaction-induced quantum ratchet in a Bose-Einstein condensate. Physical Review A, 2007, 76, .	1.0	19

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73	Dissipationless directed transport in rocked single-band quantum dynamics. Physical Review A, 2007, 75, .	1.0	26
74	Current behavior of a quantum Hamiltonian ratchet in resonance. Physical Review E, 2007, 75, 011102.	0.8	25
75	Quantum ratchets for periodically kicked cold atoms and Bose-Einstein condensates. Journal of Physics: Conference Series, 2007, 67, 012001.	0.3	1
76	Quantum resonance and antiresonance for a periodically kicked Bose-Einstein condensate in a one-dimensional box. Physical Review E, 2006, 73, 056203.	0.8	6