

Manas Kulkarni

List of Publications by Year in descending order

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48
papers

951
citations

430874

18
h-index

454955

30
g-index

48
all docs

48
docs citations

48
times ranked

770
citing authors

#	ARTICLE	IF	CITATIONS
1	Phonon thermoelectric transistors and rectifiers. <i>Physical Review B</i> , 2015, 92, .	3.2	83
2	Out-of-equilibrium open quantum systems: A comparison of approximate quantum master equation approaches with exact results. <i>Physical Review A</i> , 2016, 93, .	2.5	79
3	Steady-state entanglement of spatially separated qubits via quantum bath engineering. <i>Physical Review A</i> , 2014, 90, .	2.5	56
4	Finite-temperature dynamical structure factor of the one-dimensional Bose gas: From the Gross-Pitaevskii equation to the Kardar-Parisi-Zhang universality class of dynamical critical phenomena. <i>Physical Review A</i> , 2013, 88, .	2.5	51
5	Cavity-coupled double-quantum dot at finite bias: Analogy with lasers and beyond. <i>Physical Review B</i> , 2014, 90, .	3.2	51
6	Anomalous transport in the Aubry-Andr�-Harper model in isolated and open systems. <i>Physical Review B</i> , 2018, 97, .	3.2	46
7	Cavity-Mediated Near-Critical Dissipative Dynamics of a Driven Condensate. <i>Physical Review Letters</i> , 2013, 111, 220408.	7.8	39
8	Nonequilibrium phase diagram of a one-dimensional quasiperiodic system with a single-particle mobility edge. <i>Physical Review B</i> , 2017, 96, .	3.2	37
9	Photon-Mediated Interactions: A Scalable Tool to Create and Sustain Entangled States of N Atoms. <i>Physical Review X</i> , 2016, 6, .	8.9	36
10	Quantum-dot circuit-QED thermoelectric diodes and transistors. <i>Physical Review B</i> , 2019, 99, .	3.2	36
11	Hydrodynamics of cold atomic gases in the limit of weak nonlinearity, dispersion, and dissipation. <i>Physical Review A</i> , 2012, 86, .	2.5	35
12	Fluctuating hydrodynamics for a discrete Gross-Pitaevskii equation: Mapping onto the Kardar-Parisi-Zhang universality class. <i>Physical Review A</i> , 2015, 92, .	2.5	35
13	Nonlinear Fluctuating Hydrodynamics for the Classical XXZ Spin Chain. <i>Journal of Statistical Physics</i> , 2020, 180, 238-262.	1.2	27
14	Fundamental limitations in Lindblad descriptions of systems weakly coupled to baths. <i>Physical Review A</i> , 2022, 105, .	2.5	27
15	Effect of broadening in the weak-coupling limit of vibrationally coupled electron transport through molecular junctions and the analogy to quantum dot circuit QED systems. <i>Physical Review B</i> , 2015, 91, .	3.2	24
16	Emergent PT symmetry in a double-quantum-dot circuit QED setup. <i>Physical Review Research</i> , 2020, 2, .	3.6	21
17	Universal spectral form factor for many-body localization. <i>Physical Review Research</i> , 2021, 3, .	3.6	20
18	Universal dynamics of a soliton after an interaction quench. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2015, 48, 28FT01.	2.1	19

#	ARTICLE	IF	CITATIONS
19	Tunable photonic cavity coupled to a voltage-biased double quantum dot system: Diagrammatic nonequilibrium Green's function approach. <i>Physical Review B</i> , 2016, 94, .	3.2	17
20	Quantum quench and thermalization of one-dimensional Fermi gas via phase-space hydrodynamics. <i>Physical Review A</i> , 2018, 98, .	2.5	16
21	Giant photon gain in large-scale quantum dot-circuit QED systems. <i>Physical Review B</i> , 2016, 94, .	3.2	14
22	Photon statistics of a double quantum dot micromaser: Quantum treatment. <i>Physical Review B</i> , 2019, 100, .	3.2	14
23	Nonlinear transport in an out-of-equilibrium single-site Bose-Hubbard model: Scaling, rectification, and time dynamics. <i>Physical Review A</i> , 2016, 94, .	2.5	13
24	Hydrodynamics of local excitations after an interaction quench in 1D cold atomic gases. <i>New Journal of Physics</i> , 2016, 18, 115003.	2.9	12
25	Some Connections Between the Classical Calogero-Moser Model and the Log-Gas. <i>Journal of Statistical Physics</i> , 2019, 176, 1463-1479.	1.2	12
26	Spatiotemporal spread of perturbations in a driven dissipative Duffing chain: An out-of-time-ordered correlator approach. <i>Physical Review E</i> , 2020, 102, 052103.	2.1	12
27	Cold Fermi gas with inverse square interaction in a harmonic trap. <i>Nuclear Physics B</i> , 2011, 846, 122-136.	2.5	10
28	Emergence of the Calogero family of models in external potentials: duality, solitons and hydrodynamics. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 455202.	2.1	10
29	Transport, correlations, and chaos in a classical disordered anharmonic chain. <i>Physical Review E</i> , 2020, 102, 022130.	2.1	10
30	Nonlinear dynamics of spin and charge in spin-Calogero model. <i>Physical Review B</i> , 2009, 80, .	3.2	9
31	Soliton solutions of a Calogero model in a harmonic potential. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2011, 44, 295203.	2.1	9
32	Spatiotemporal spread of perturbations in power-law models at low temperatures: Exact results for classical out-of-time-order correlators. <i>Physical Review E</i> , 2021, 104, 044117.	2.1	8
33	Particles confined in arbitrary potentials with a class of finite-range repulsive interactions. <i>Physical Review E</i> , 2020, 102, 032128.	2.1	7
34	Harmonically confined long-ranged interacting gas in the presence of a hard wall. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2021, 2021, 103209.	2.3	7
35	Engineering indefinitely long-lived localization in cavity-QED arrays. <i>Physical Review A</i> , 2020, 101, .	2.5	6
36	Quasiparticle kinetic theory for Calogero models. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021, 54, 474001.	2.1	6

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37	Quasiparticle scattering from vortices in d-wave superconductors. II. Berry phase contribution. <i>Physical Review B</i> , 2011, 84, .	3.2	5
38	Edge fluctuations and third-order phase transition in harmonically confined long-range systems. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2022, 2022, 033203.	2.3	5
39	Gap Statistics for Confined Particles with Power-Law Interactions. <i>Physical Review Letters</i> , 2022, 128, 170603.	7.8	5
40	Duality in a hyperbolic interaction model integrable even in a strong confinement: multi-soliton solutions and field theory. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2019, 52, 415201.	2.1	4
41	Multifaceted nonlinear dynamics in \mathbb{PT} -symmetric coupled Liouville oscillators. <i>Nonlinear Dynamics</i> , 2020, 100, 1629-1640.	5.2	4
42	Quasiparticle scattering from vortices in d-wave superconductors. I. Superflow contribution. <i>Physical Review B</i> , 2011, 84, .	3.2	3
43	Population imbalance for a family of one-dimensional incommensurate models with mobility edges. <i>Physical Review B</i> , 2021, 103, .	3.2	3
44	Emergence of chaos and controlled photon transfer in a cavity-QED network. <i>Physical Review Research</i> , 2020, 2, .	3.6	3
45	Permanent spin currents in cavity-qubit systems. <i>Physical Review B</i> , 2018, 97, .	3.2	2
46	Dynamical regimes of finite-temperature discrete nonlinear Schrödinger chain. <i>Physical Review E</i> , 2021, 104, 044136.	2.1	2
47	Provable bounds for the Korteweg-de Vries reduction in multi-component nonlinear Schrödinger equation. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 135206.	2.1	1
48	Soliton-like behaviour in non-integrable systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021, 54, 425701.	2.1	0