

Dibyendu Roy

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

1,712
citations

279487

23
h-index

276539

41
g-index

48
all docs

48
docs citations

48
times ranked

1263
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Colloquium</i> : Strongly interacting photons in one-dimensional continuum. Reviews of Modern Physics, 2017, 89, .	16.4	313
2	Two-Photon Scattering by a Driven Three-Level Emitter in a One-Dimensional Waveguide and Electromagnetically Induced Transparency. Physical Review Letters, 2011, 106, 053601.	2.9	165
3	Heat Transport in Harmonic Lattices. Journal of Statistical Physics, 2006, 125, 801-820.	0.5	164
4	Few-photon optical diode. Physical Review B, 2010, 81, .	1.1	112
5	Heat transport and phonon localization in mass-disordered harmonic crystals. Physical Review B, 2010, 81, .	1.1	69
6	Topologically trivial zero-bias conductance peak in semiconductor Majorana wires from boundary effects. Physical Review B, 2013, 88, .	1.1	62
7	Correlated few-photon transport in one-dimensional waveguides: Linear and nonlinear dispersions. Physical Review A, 2011, 83, .	1.0	57
8	Electron transport in a one dimensional conductor with inelastic scattering by self-consistent reservoirs. Physical Review B, 2007, 75, .	1.1	47
9	Two-photon scattering of a tightly focused weak light beam from a small atomic ensemble: An optical probe to detect atomic level structures. Physical Review A, 2013, 87, .	1.0	45
10	Crossover from ballistic to diffusive thermal transport in quantum Langevin dynamics study of a harmonic chain connected to self-consistent reservoirs. Physical Review E, 2008, 77, 062102.	0.8	40
11	Dynamics of superconducting nanowires shunted with an external resistor. Physical Review B, 2012, 85, .	1.1	40
12	Cascaded two-photon nonlinearity in a one-dimensional waveguide with multiple two-level emitters. Scientific Reports, 2013, 3, 2337.	1.6	39
13	Heat Transport in Ordered Harmonic Lattices. Journal of Statistical Physics, 2008, 131, 535-541.	0.5	35
14	Effect of long-range hopping and interactions on entanglement dynamics and many-body localization. Physical Review B, 2017, 95, .	1.1	35
15	Majorana fermions in a topological superconducting wire out of equilibrium: Exact microscopic transport analysis of a $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -wave open chain coupled to normal leads. Physical Review B, 2012, 86, .	1.1	34
16	Spin Noise Spectroscopy Beyond Thermal Equilibrium and Linear Response. Physical Review Letters, 2014, 113, 156601.	2.9	32
17	Role of pinning potentials in heat transport through disordered harmonic chains. Physical Review E, 2008, 78, 051112.	0.8	29
18	Cross-correlation spin noise spectroscopy of heterogeneous interacting spin systems. Scientific Reports, 2015, 5, 9573.	1.6	27

#	ARTICLE	IF	CITATIONS
19	Scattering of Electrons from an Interacting Region. <i>Physical Review Letters</i> , 2008, 101, 066805.	2.9	26
20	Crossover from Fermi-Pasta-Ulam to normal diffusive behavior in heat conduction through open anharmonic lattices. <i>Physical Review E</i> , 2012, 86, 041102.	0.8	26
21	Heat conduction and phonon localization in disordered harmonic crystals. <i>Europhysics Letters</i> , 2010, 90, 40001.	0.7	25
22	Statistics of scattered photons from a driven three-level emitter in a one-dimensional open space. <i>Physical Review A</i> , 2014, 89, .	1.0	25
23	Langevin dynamics in crossed magnetic and electric fields: Hall and diamagnetic fluctuations. <i>Physical Review E</i> , 2008, 78, 052102.	0.8	24
24	Random matrix spectral form factor in kicked interacting fermionic chains. <i>Physical Review E</i> , 2020, 102, 060202.	0.8	23
25	Two-beam spin noise spectroscopy. <i>Applied Physics Letters</i> , 2013, 102, 202405.	1.5	22
26	Topological aspects of periodically driven non-Hermitian Su-Schrieffer-Heeger model. <i>Physical Review B</i> , 2021, 103, .	1.1	22
27	Probing many-body localization by spin noise spectroscopy. <i>Physical Review B</i> , 2015, 92, .	1.1	17
28	Critical features of nonlinear optical isolators for improved nonreciprocity. <i>Physical Review A</i> , 2017, 96, .	1.0	16
29	Dynamics of hybrid junctions of Majorana wires. <i>Physical Review B</i> , 2019, 99, .	1.1	15
30	Measurements of spin properties of atomic systems in and out of equilibrium via noise spectroscopy. <i>Optics Express</i> , 2018, 26, 32168.	1.7	14
31	Nonequilibrium charge transport in an interacting open system: Two-particle resonance and current asymmetry. <i>Physical Review B</i> , 2009, 80, .	1.1	13
32	Viscous corrections to the resistance of nanojunctions: A dispersion relation approach. <i>Physical Review B</i> , 2011, 83, .	1.1	12
33	Spin noise spectroscopy of quantum dot molecules. <i>Physical Review B</i> , 2013, 88, .	1.1	11
34	Topology of multipartite non-Hermitian one-dimensional systems. <i>Physical Review B</i> , 2022, 105, .	1.1	11
35	Light propagation through one-dimensional interacting open quantum systems. <i>Physical Review A</i> , 2018, 98, .	1.0	10
36	Electron transport in an open mesoscopic metallic ring. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 025206.	0.7	8

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37	Detection of spin coherence in cold atoms via Faraday rotation fluctuations. Physical Review Research, 2021, 3, .	1.3	7
38	Role of kinetic inductance in transport properties of shunted superconducting nanowires. Journal of Physics Condensed Matter, 2013, 25, 325701.	0.7	6
39	Amplification and cross-Kerr nonlinearity in waveguide quantum electrodynamics. Physical Review A, 2020, 101, .	1.0	6
40	Nonequilibrium Electrical, Thermal and Spin Transport in Open Quantum Systems of Topological Superconductors, Semiconductors and Metals. Journal of Statistical Physics, 2022, 187, 1.	0.5	6
41	Symmetric and asymmetric charge transport in interacting asymmetric quantum impurities. Physical Review B, 2010, 81, .	1.1	5
42	Random-phase reservoir and a quantum resistor: The Lloyd model. Physical Review B, 2007, 76, .	1.1	4
43	Two mesoscopic models of two interacting electrons: Exact results. Physical Review B, 2009, 80, .	1.1	4
44	Thermoelectric phenomena in disordered open quantum systems. Physical Review B, 2010, 81, .	1.1	3
45	A Probabilistic Algebraic Attack on the Grain Family of Stream Ciphers. Lecture Notes in Computer Science, 2014, , 558-565.	1.0	3
46	Decohering d -dimensional quantum resistance. Physical Review B, 2008, 77, .	1.1	1