

Karyn Le Hur

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

2,250
citations

394421

19
h-index

302126

39
g-index

41
all docs

41
docs citations

41
times ranked

1791
citing authors

#	ARTICLE	IF	CITATIONS
1	Global and local topological quantized responses from geometry, light, and time. Physical Review B, 2022, 105, .	3.2	5
2	Interacting stochastic topology and Mott transition from light response. Physical Review B, 2021, 103, .	3.2	9
3	Quantum system dynamics with a weakly nonlinear Josephson junction bath. Physical Review B, 2021, 103, .	3.2	1
4	Spin-orbit coupling in the kagome lattice with flux and time-reversal symmetry. Physical Review B, 2021, 103, .	3.2	5
5	Quantum entangled fractional topology and curvatures. Communications Physics, 2021, 4, .	5.3	8
6	Analytical approach for the Mott transition in the Kane-Mele-Hubbard model. Physical Review B, 2021, 104, .	3.2	5
7	Kondo induced π -phase shift of microwave photons in a circuit quantum electrodynamics architecture. Physical Review B, 2021, 104, .	3.2	3
8	Localization dynamics from static and mobile impurities. Physical Review B, 2021, 104, .	3.2	0
9	Phase-Coherent Dynamics of Quantum Devices with Local Interactions. Entropy, 2020, 22, 847.	2.2	7
10	Magnetic topological kagome systems. Physical Review Research, 2020, 2, .	3.6	14
11	Mechanical Resonances of Mobile Impurities in a One-Dimensional Quantum Fluid. Physical Review Letters, 2019, 123, 075302.	7.8	2
12	Topological proximity effects in a Haldane graphene bilayer system. Physical Review B, 2019, 100, .	3.2	12
13	Quench-induced dynamical phase transitions and π -synchronization in the Bose-Hubbard model. Physical Review B, 2019, 99, .	3.2	10
14	Driven dissipative dynamics and topology of quantum impurity systems. Comptes Rendus Physique, 2018, 19, 451-483.	0.9	31
15	Topology of a dissipative spin: Dynamical Chern number, bath-induced nonadiabaticity, and a quantum dynamo effect. Physical Review B, 2017, 95, .	3.2	12
16	Majorana spin liquids, topology, and superconductivity in ladders. Physical Review B, 2017, 96, .	3.2	14
17	Many-body quantum electrodynamics networks: Non-equilibrium condensed matter physics with light. Comptes Rendus Physique, 2016, 17, 808-835.	0.9	82
18	Chiral Mott insulators, Meissner effect, and Laughlin states in quantum ladders. Physical Review B, 2015, 91, .	3.2	65

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19	Strongly correlated dynamics in multichannel quantum RC circuits. Physical Review B, 2013, 87, .	3.2	16
20	Scaling of entanglement entropy across Lifshitz transitions. Physical Review B, 2013, 87, .	3.2	23
21	Bosonic Mott Insulator with Meissner Currents. Physical Review Letters, 2013, 111, 150601.	7.8	91
22	Noninvasive probes of charge fractionalization in quantum spin Hall insulators. Physical Review B, 2012, 85, .	3.2	17
23	Bipartite fluctuations as a probe of many-body entanglement. Physical Review B, 2012, 85, .	3.2	214
24	Anomalous Hall effects of light and chiral edge modes on the Kagomé lattice. Physical Review A, 2012, 86, .	2.5	74
25	Quantum spin Hall insulators with interactions and lattice anisotropy. Physical Review B, 2012, 85, .	3.2	127
26	d-wave superfluid with gapless edges in a cold-atom trap. Physical Review A, 2012, 85, .	2.5	2
27	Entanglement entropy of the two-dimensional Heisenberg antiferromagnet. Physical Review B, 2011, 83, .	3.2	67
28	Designing heterostructures with higher-temperature superconductivity. Physical Review B, 2011, 84, .	3.2	5
29	Entanglement entropy from charge statistics: Exact relations for noninteracting many-body systems. Physical Review B, 2011, 83, .	3.2	107
30	Universal resistances of the quantum resistance “capacitance” circuit. Nature Physics, 2010, 6, 697-701.	16.7	85
31	Universality in dissipative Landau-Zener transitions. Physical Review A, 2010, 82, .	2.5	41
32	Topological insulators and Mott physics from the Hubbard interaction. Physical Review B, 2010, 82, .	3.2	259
33	Time-reversal-symmetry breaking in circuit-QED-based photon lattices. Physical Review A, 2010, 82, .	2.5	310
34	General relation between entanglement and fluctuations in one dimension. Physical Review B, 2010, 82, .	3.2	109
35	Dynamics, synchronization, and quantum phase transitions of two dissipative spins. Physical Review B, 2010, 82, .	3.2	86
36	Theory of nonequilibrium transport in the $SU(N)$ regime. Physical Review B, 2009, 80, .	3.2	72

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37	Entanglement, decoherence, and dynamics of a two-state system. Journal of Modern Optics, 2009, 56, 2106-2111.	1.3	2
38	Charge fractionalization in quantum wires. Nature Physics, 2008, 4, 116-119.	16.7	157
39	Double-gap superconducting proximity effect in armchair carbon nanotubes. Physical Review B, 2008, 77, .	3.2	12
40	Entanglement and Criticality in Quantum Impurity Systems. Physical Review Letters, 2007, 99, 126801.	7.8	89