

# 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	Time-reversal-symmetry breaking in circuit-QED-based photon lattices. Physical Review A, 2010, 82, .	2.5	310
2	Topological insulators and Mott physics from the Hubbard interaction. Physical Review B, 2010, 82, .	3.2	259
3	Bipartite fluctuations as a probe of many-body entanglement. Physical Review B, 2012, 85, .	3.2	214
4	Charge fractionalization in quantum wires. Nature Physics, 2008, 4, 116-119.	16.7	157
5	Quantum spin Hall insulators with interactions and lattice anisotropy. Physical Review B, 2012, 85, .	3.2	127
6	General relation between entanglement and fluctuations in one dimension. Physical Review B, 2010, 82, .	3.2	109
7	Entanglement entropy from charge statistics: Exact relations for noninteracting many-body systems. Physical Review B, 2011, 83, .	3.2	107
8	Bosonic Mott Insulator with Meissner Currents. Physical Review Letters, 2013, 111, 150601.	7.8	91
9	Entanglement and Criticality in Quantum Impurity Systems. Physical Review Letters, 2007, 99, 126801.	7.8	89
10	Dynamics, synchronization, and quantum phase transitions of two dissipative spins. Physical Review B, 2010, 82, .	3.2	86
11	Universal resistances of the quantum resistanceâ€“capacitance circuit. Nature Physics, 2010, 6, 697-701.	16.7	85
12	Many-body quantum electrodynamics networks: Non-equilibrium condensed matter physics with light. Comptes Rendus Physique, 2016, 17, 808-835.	0.9	82
13	Anomalous Hall effects of light and chiral edge modes on the KagomÃ© lattice. Physical Review A, 2012, 86, .	2.5	74
14	Theory of nonequilibrium transport in the $SU(N)$ regime. Physical Review B, 2009, 80, .	3.2	72
15	Entanglement entropy of the two-dimensional Heisenberg antiferromagnet. Physical Review B, 2011, 83, .	3.2	67
16	Chiral Mott insulators, Meissner effect, and Laughlin states in quantum ladders. Physical Review B, 2015, 91, .	3.2	65
17	Universality in dissipative Landau-Zener transitions. Physical Review A, 2010, 82, .	2.5	41
18	Driven dissipative dynamics and topology of quantum impurity systems. Comptes Rendus Physique, 2018, 19, 451-483.	0.9	31

#	ARTICLE	IF	CITATIONS
19	Scaling of entanglement entropy across Lifshitz transitions. <i>Physical Review B</i> , 2013, 87, .	3.2	23
20	Noninvasive probes of charge fractionalization in quantum spin Hall insulators. <i>Physical Review B</i> , 2012, 85, .	3.2	17
21	Strongly correlated dynamics in multichannel quantum RC circuits. <i>Physical Review B</i> , 2013, 87, .	3.2	16
22	Majorana spin liquids, topology, and superconductivity in ladders. <i>Physical Review B</i> , 2017, 96, .	3.2	14
23	Magnetic topological kagome systems. <i>Physical Review Research</i> , 2020, 2, .	3.6	14
24	Double-gap superconducting proximity effect in armchair carbon nanotubes. <i>Physical Review B</i> , 2008, 77, .	3.2	12
25	Topology of a dissipative spin: Dynamical Chern number, bath-induced nonadiabaticity, and a quantum dynamo effect. <i>Physical Review B</i> , 2017, 95, .	3.2	12
26	Topological proximity effects in a Haldane graphene bilayer system. <i>Physical Review B</i> , 2019, 100, .	3.2	12
27	Quench-induced dynamical phase transitions and $\pi$ -synchronization in the Bose-Hubbard model. <i>Physical Review B</i> , 2019, 99, .	3.2	10
28	Interacting stochastic topology and Mott transition from light response. <i>Physical Review B</i> , 2021, 103, .	3.2	9
29	Quantum entangled fractional topology and curvatures. <i>Communications Physics</i> , 2021, 4, .	5.3	8
30	Phase-Coherent Dynamics of Quantum Devices with Local Interactions. <i>Entropy</i> , 2020, 22, 847.	2.2	7
31	Designing heterostructures with higher-temperature superconductivity. <i>Physical Review B</i> , 2011, 84, .	3.2	5
32	Spin-orbit coupling in the kagome lattice with flux and time-reversal symmetry. <i>Physical Review B</i> , 2021, 103, .	3.2	5
33	Analytical approach for the Mott transition in the Kane-Mele-Hubbard model. <i>Physical Review B</i> , 2021, 104, .	3.2	5
34	Global and local topological quantized responses from geometry, light, and time. <i>Physical Review B</i> , 2022, 105, .	3.2	5
35	Kondo induced $\pi$ -phase shift of microwave photons in a circuit quantum electrodynamics architecture. <i>Physical Review B</i> , 2021, 104, .	3.2	3
36	Entanglement, decoherence, and dynamics of a two-state system. <i>Journal of Modern Optics</i> , 2009, 56, 2106-2111.	1.3	2

#	ARTICLE	IF	CITATIONS
37	d-wave superfluid with gapless edges in a cold-atom trap. Physical Review A, 2012, 85, .	2.5	2
38	Mechanical Resonances of Mobile Impurities in a One-Dimensional Quantum Fluid. Physical Review Letters, 2019, 123, 075302.	7.8	2
39	Quantum system dynamics with a weakly nonlinear Josephson junction bath. Physical Review B, 2021, 103, .	3.2	1
40	Localization dynamics from static and mobile impurities. Physical Review B, 2021, 104, .	3.2	0