

Efrat Shimshoni

List of Publications by Year in descending order

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papers

851
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623734

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477307

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44
times ranked

876
citing authors

#	ARTICLE	IF	CITATIONS
1	Transport through Quantum Melts. Physical Review Letters, 1998, 80, 3352-3355.	7.8	136
2	Onset of dissipation in Zener dynamics: Relaxation versus dephasing. Annals of Physics, 1991, 210, 16-80.	2.8	107
3	Quantum Zigzag Transition in Ion Chains. Physical Review Letters, 2011, 106, 010401.	7.8	87
4	Quantized Hall insulator: Transverse and longitudinal transport. Physical Review B, 1997, 55, 9817-9823.	3.2	52
5	Scaling of the anomalous Hall effect in SrRuO ₃ . Physical Review B, 2011, 84, .	3.2	47
6	Dephasing of interference in Landau-Zener transitions. Physical Review B, 1993, 47, 9523-9536.	3.2	43
7	Quantum structural phase transition in chains of interacting atoms. Physical Review A, 2011, 83, .	2.5	33
8	Quantum Hall effect in Coulomb drag: Interlayer friction in strong magnetic fields. Physical Review B, 1994, 49, 11484-11487.	3.2	30
9	Coulomb interactions and delocalization in quantum Hall constrictions. Physical Review B, 2000, 61, 10929-10940.	3.2	19
10	Experimental Estimates of Dephasing Time in Molecular Magnets. Physical Review Letters, 2007, 98, 257204.	7.8	18
11	Collective edge modes near the onset of a graphene quantum spin Hall state. Physical Review B, 2014, 90, .	3.2	18
12	From classical to quantum criticality. Physical Review B, 2014, 89, .	3.2	16
13	Intrinsic dissipative fluctuation rate in mesoscopic superconducting rings. Physical Review B, 1994, 49, 494-497.	3.2	15
14	Role of vortices in the mutual coupling of superconducting and normal-metal films. Physical Review B, 1995, 51, 9415-9418.	3.2	14
15	Collective bulk and edge modes through the quantum phase transition in graphene at $\tilde{\nu}/2=0$. Physical Review B, 2016, 93, .	3.2	14
16	Coulomb drag at the onset of Anderson insulators. Physical Review B, 1997, 56, 13301-13305.	3.2	13
17	Surface states and arcless angles in twisted Weyl semimetals. Physical Review Research, 2020, 2, .	3.6	13
18	THE QUANTIZED HALL INSULATOR: A "QUANTUM" SIGNATURE OF A "CLASSICAL" TRANSPORT REGIME?. Modern Physics Letters B, 2004, 18, 923-943.	1.9	12

#	ARTICLE	IF	CITATIONS
19	Spontaneous layer polarization and conducting domain walls in the quantum Hall regime of bilayer graphene. Physical Review B, 2015, 91, .	3.2	12
20	Emergence of helical edge conduction in graphene at the $\nu = \pm 1/2$ Hall state. Physical Review B, 2016, 93, .	3.2	12
21	Spin-valley coherent phases of the $\nu = \pm 1/2$ quantum Hall state in bilayer graphene. Physical Review B, 2017, 96, .	3.2	10
22	Charging corrections to the Josephson Hamiltonian. Physical Review B, 1989, 40, 2158-2162.	3.2	10
23	Superconductor-insulator transitions and magnetoresistance oscillations in superconducting strips. Physical Review B, 2011, 83, .	3.2	10
24	Transport via double constrictions in integer and fractional topological insulators. Physical Review B, 2013, 88, .	3.2	10
25	Classical versus quantum transport near quantum Hall transitions. Physical Review B, 1999, 60, 10691-10694.	3.2	9
26	Emergent bosons in the fermionic two-leg flux ladder. Physical Review B, 2019, 100, .	3.2	9
27	Charging-energy corrections to macroscopic quantum tunneling in small Josephson junctions. Physical Review B, 1991, 43, 2705-2711.	3.2	8
28	Superfluid-insulator transition of quantum Hall domain walls in bilayer graphene. Physical Review B, 2014, 89, .	3.2	8
29	Ultra-small-capacitance Josephson junction: Inductive coupling to a voltage source. Physical Review B, 1989, 40, 2147-2157.	3.2	7
30	Bulk and edge correlations in the compressible half-filled quantum Hall state. Physical Review B, 1999, 59, 10757-10768.	3.2	7
31	Intermixing of ordinary and anomalous Hall effect in SrRuO_3 . Physical Review B, 2015, 92, .	3.2	7
32	Buckling Transitions and Clock Order of Two-Dimensional Coulomb Crystals. Physical Review X, 2016, 6, .	8.9	7
33	Tunneling probe of fluctuating superconductivity in disordered thin films. Physical Review B, 2018, 97, .	3.2	6
34	Quarter-filled honeycomb lattice with a quantized Hall conductance. Physical Review B, 2012, 85, .	3.2	5
35	Helical quantum Hall edge modes in bilayer graphene: a realization of quantum spin-ladders. Physica Scripta, 2015, T165, 014019.	2.5	5
36	Localization due to interaction-enhanced disorder in bosonic systems. Annalen Der Physik, 2017, 529, 1600309.	2.4	5

#	ARTICLE	IF	CITATIONS
37	Helical Edge States and Quantum Phase Transitions in Tetralayer Graphene. Physical Review Letters, 2020, 125, 036803.	7.8	5
38	Josephson interference phenomena above T_c . Physical Review B, 1993, 48, 9865-9868.	3.2	3
39	Weyl Semimetal Path to Valley Filtering in Graphene. Physical Review Letters, 2021, 127, 126801.	7.8	3
40	Edge states on a quantum Hall liquid-solid interface. Physical Review B, 1998, 58, 4694-4700.	3.2	2
41	Localization of the Hall resistivity at high magnetic fields: absence of the quantized Hall insulator. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 674-677.	2.7	2
42	Quantum phases of a weakly disordered Josephson ladder. Physical Review B, 2021, 103, .	3.2	1
43	Critical resistivity along the quantum Hall liquid-insulator transition line. Physical Review B, 2000, 62, R7751-R7754.	3.2	0
44	Enhancement of superconductivity upon reduction of carrier density in proximitized graphene. Physical Review B, 2022, 105, .	3.2	0