

Fabrizio Dolcini

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

57
papers

1,125
citations

20
h-index

32
g-index

67
ext. papers

1,340
ext. citations

3.3
avg, IF

4.91
L-index

#	Paper	IF	Citations
57	Phonon-induced backscattering in helical edge states. <i>Physical Review Letters</i> , 2012 , 108, 086602	7.4	92
56	Full electrical control of charge and spin conductance through interferometry of edge states in topological insulators. <i>Physical Review B</i> , 2011 , 83,	3.3	73
55	Transport properties of single-channel quantum wires with an impurity: Influence of finite length and temperature on average current and noise. <i>Physical Review B</i> , 2005 , 71,	3.3	70
54	Renormalization group approach for the scattering off a single Rashba impurity in a helical liquid. <i>Physical Review B</i> , 2012 , 86,	3.3	65
53	Andreev reflection in graphene nanoribbons. <i>Physical Review B</i> , 2009 , 79,	3.3	61
52	Topological Josephson π junctions. <i>Physical Review B</i> , 2015 , 92,	3.3	57
51	Appearance of fractional charge in the noise of nonchiral Luttinger liquids. <i>Physical Review Letters</i> , 2004 , 92, 226405	7.4	57
50	Wigner-function formalism applied to semiconductor quantum devices: Failure of the conventional boundary condition scheme. <i>Physical Review B</i> , 2013 , 88,	3.3	49
49	Derivation of nonlinear single-particle equations via many-body Lindblad superoperators: A density-matrix approach. <i>Physical Review B</i> , 2014 , 90,	3.3	31
48	Oscillatory nonlinear conductance of an interacting quantum wire with an impurity. <i>Physical Review Letters</i> , 2003 , 91, 266402	7.4	31
47	Signatures of Majorana bound states in transport properties of hybrid structures based on helical liquids. <i>Physical Review B</i> , 2014 , 89,	3.3	30
46	Electron tunneling into a quantum wire in the Fabry-Pérot regime. <i>Physical Review B</i> , 2009 , 79,	3.3	28
45	Symmetry-protected topological phases of one-dimensional interacting fermions with spin-charge separation. <i>Physical Review B</i> , 2017 , 95,	3.3	25
44	Blockade and counterflow supercurrent in exciton-condensate Josephson junctions. <i>Physical Review Letters</i> , 2010 , 104, 027004	7.4	23
43	Photoexcitation of electron wave packets in quantum spin Hall edge states: Effects of chiral anomaly from a localized electric pulse. <i>Physical Review B</i> , 2016 , 94,	3.3	22
42	Tunnel junction of helical edge states: Determining and controlling spin-preserving and spin-flipping processes through transconductance. <i>Physical Review B</i> , 2014 , 89,	3.3	21
41	Interplay between energy dissipation and reservoir-induced thermalization in nonequilibrium quantum nanodevices. <i>Physical Review B</i> , 2013 , 88,	3.3	21

40	Switching the sign of Josephson current through Aharonov-Bohm interferometry. <i>Physical Review B</i> , 2007 , 75,	3-3	21
39	Multiple Andreev reflections in a quantum dot coupled to superconducting leads: Effect of spin-orbit coupling. <i>Physical Review B</i> , 2008 , 78,	3-3	20
38	Signature of interaction in dc transport of ac-gated quantum spin Hall edge states. <i>Physical Review B</i> , 2012 , 85,	3-3	19
37	Temperature and filling dependence of the superconducting \mathbb{Z}_2 phase in the Penson-Kolb-Hubbard model. <i>Physical Review B</i> , 2000 , 62, 2315-2320	3-3	19
36	Weak localization in electric-double-layer gated few-layer graphene. <i>2D Materials</i> , 2017 , 4, 035006	5-9	18
35	Josephson current in a four-terminal superconductor/exciton-condensate/superconductor system. <i>Physical Review B</i> , 2011 , 84,	3-3	15
34	Finite-temperature properties of the Hubbard chain with bond-charge interaction. <i>Physical Review B</i> , 2002 , 66,	3-3	15
33	Results on the symmetries of integrable fermionic models on chains. <i>Nuclear Physics B</i> , 2001 , 592, 563-598	3-3	14
32	Appearance of the universal value e^2/h of the zero-bias conductance in a Weyl semimetal-superconductor junction. <i>Physical Review B</i> , 2018 , 97,	3-3	13
31	Wigner-function formalism applied to semiconductor quantum devices: Need for nonlocal scattering models. <i>Physical Review B</i> , 2017 , 96,	3-3	13
30	A ballistic quantum ring Josephson interferometer. <i>Nanotechnology</i> , 2013 , 24, 245201	3-4	12
29	Quantum phases of one-dimensional Hubbard models with three- and four-body couplings. <i>Physical Review B</i> , 2013 , 88,	3-3	12
28	Magnetic field effects on a nanowire with inhomogeneous Rashba spin-orbit coupling: Spin properties at equilibrium. <i>Physical Review B</i> , 2018 , 98,	3-3	10
27	Noise and current correlations in tunnel junctions of quantum spin Hall edge states. <i>Physical Review B</i> , 2015 , 92,	3-3	10
26	Dispersionless propagation of electron wavepackets in single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2015 , 106, 243101	3-4	10
25	Interplay between Rashba interaction and electromagnetic field in the edge states of a two-dimensional topological insulator. <i>Physical Review B</i> , 2017 , 95,	3-3	9
24	Electron-phonon coupling in metallic carbon nanotubes: Dispersionless electron propagation despite dissipation. <i>Physical Review B</i> , 2015 , 92,	3-3	9
23	Band and filling-controlled transitions in exactly solved electronic models. <i>Physical Review B</i> , 2001 , 63,	3-3	9

22	Quench-induced dynamical phase transitions and Synchronization in the Bose-Hubbard model. <i>Physical Review B</i> , 2019 , 99,	3.3	8
21	Dynamics of a SQUID ratchet coupled to a nanomechanical resonator. <i>Physical Review B</i> , 2009 , 79,	3.3	8
20	Exact thermodynamics of an extended Hubbard model of single and paired carriers in competition. <i>Physical Review B</i> , 2002 , 65,	3.3	7
19	Nanotransformation and current fluctuations in exciton condensate junctions. <i>Physical Review Letters</i> , 2012 , 108, 156401	7.4	6
18	INTEGRABLE EXTENDED HUBBARD HAMILTONIANS FROM SYMMETRIC GROUP EQUATIONS. <i>International Journal of Modern Physics B</i> , 2000 , 14, 1719-1728	1.1	6
17	Adiabatic magnetization of superconductors as a high-performance cooling mechanism. <i>Physical Review B</i> , 2009 , 80,	3.3	5
16	Photoexcitation in two-dimensional topological insulators. <i>European Physical Journal: Special Topics</i> , 2018 , 227, 1323-1344	2.3	5
15	Effects of disorder on electron tunneling through helical edge states. <i>Physical Review B</i> , 2014 , 90,	3.3	4
14	Negativity of the excess noise in a quantum wire capacitively coupled to a gate. <i>Physical Review B</i> , 2007 , 75,	3.3	4
13	Majorana-like localized spin density without bound states in topologically trivial spin-orbit coupled nanowires. <i>Physical Review B</i> , 2020 , 101,	3.3	3
12	Challenges towards the simulation of GaN-based LEDs beyond the semiclassical framework 2016 ,		3
11	Coherent charge and spin oscillations induced by local quenches in nanowires with spin-orbit coupling. <i>Physical Review B</i> , 2019 , 100,	3.3	2
10	Correlation length and the scaling parameter in the renormalization group. <i>Physical Review E</i> , 1998 , 57, 2594-2601	2.4	2
9	EXTENDED HUBBARD HAMILTONIAN WITH (SUPER)SYMMETRIES: ADDITIVE POLYNOMIAL R-MATRIX FOR SOME INTEGRABLE CASES. <i>International Journal of Modern Physics B</i> , 1999 , 13, 2953-2960 ^{1.1}		2
8	Microscopic treatment of energy dissipation and decoherence via many-body Lindblad superoperators. <i>Journal of Physics: Conference Series</i> , 2015 , 647, 012027	0.3	1
7	Tuning excess noise by Aharonov-Bohm interferometry. <i>Chemical Physics</i> , 2010 , 375, 291-295	2.3	1
6	dc Josephson effect in metallic single-walled carbon nanotubes. <i>Solid State Communications</i> , 2007 , 144, 551-556	1.6	1
5	Confinement versus interface bound states in spin-orbit coupled nanowires. <i>European Physical Journal Plus</i> , 2020 , 135, 1	3.1	0

- 4 Electron-phonon dissipation in quantum nanodevices. *Journal of Computational Electronics*, **2016**, 15, 1170-1178 1.8
- 3 Phonon-induced quantum diffusion in Carbon-based materials. *Journal of Physics: Conference Series*, **2015**, 647, 012045 0.3
- 2 The electro-magnetostatic Aharonov-Bohm effect as a tool to tune the Josephson current. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 40, 2091-2092 3
- 1 Role of the equilibrium size of Kadanoff blocks in the loop-expansion technique. *Physical Review E*, **1998**, 58, 5461-5466 2.4