Michele Governale

List of Publications by Year
in descending order

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89 papers	2,567 citations	159585 30 h-index	206112 48 g-index
90 all docs	90 docs citations	90 times ranked	1386 citing authors

#	Article	IF	Citations
1	Persistent current in ballistic mesoscopic rings with Rashba spin-orbit coupling. Physical Review B, 2003, 68, .	3.2	171
2	Adiabatic Pumping through Interacting Quantum Dots. Physical Review Letters, 2005, 95, 246803.	7.8	108
3	Quantum Dots with Rashba Spin-Orbit Coupling. Physical Review Letters, 2002, 89, 206802.	7.8	99
4	A Josephson quantum electron pump. Nature Physics, 2011, 7, 857-861.	16.7	92
5	Superconducting proximity effect in interacting double-dot systems. Physical Review B, 2010, 82, .	3.2	88
6	Filtering spin with tunnel-coupled electron wave guides. Physical Review B, 2002, 65, .	3.2	82
7	Real-time diagrammatic approach to transport through interacting quantum dots with normal and superconducting leads. Physical Review B, 2008, 77, .	3.2	79
8	Adiabatic pumping through a quantum dot with coulomb interactions: A perturbation expansion in the tunnel coupling. Physical Review B, 2006, 74, .	3.2	77
9	Suppression of weak antilocalization inGaxIn1âˆ’xAsâˆ•InPnarrow quantum wires. Physical Review B, 2006, 74, .	3.2	66
10	Nonadiabatic Pumping through Interacting Quantum Dots. Physical Review Letters, 2009, 103, 136801.	7.8	64
11	Decoherence and dephasing in coupled Josephson-junction qubits. Chemical Physics, 2001, 268, 273-283.	1.9	60
12	Rashba-Effect-Induced Localization in Quantum Networks. Physical Review Letters, 2004, 93, 056802.	7.8	60
13	Adiabatic charge and spin pumping through quantum dots with ferromagnetic leads. Physical Review B, 2008, 77, .	3.2	59
14	Waiting Time Distributions for the Transport through a Quantum-Dot Tunnel Coupled to One Normal and One Superconducting Lead. Physical Review Letters, 2013, 111, 067002.	7.8	59
15	Charge and spin dynamics in interacting quantum dots. Physical Review B, 2010, 81, .	3.2	54
16	Nonlocal Andreev transport through an interacting quantum dot. Physical Review B, 2009, 79, .	3.2	53
17	Modeling and manufacturability assessment of bistable quantum-dot cells. Journal of Applied Physics, 1999, 85, 2962-2971.	2.5	52
18	Time scales in the dynamics of an interacting quantum dot. Physical Review B, 2012, 85, .	3.2	51

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19	Magnetic barrier in confined two-dimensional electron gases: Nanomagnetometers and magnetic switches. Applied Physics Letters, 2000, 77, 3215-3217.	3.3	50
20	Rashba effect in quantum networks. Physical Review B, 2005, 72, .	3.2	49
21	Superconducting proximity effect in interacting quantum dots revealed by shot noise. Solid State Communications, 2011, 151, 155-158.	1.9	47
22	Gauge-invariant grid discretization of the SchrÃ¶dinger equation. Physical Review B, 1998, 58, 7816-7821.	3.2	45
23	Rashba spin splitting in quantum wires. Solid State Communications, 2004, 131, 581-589.	1.9	44
24	Unconventional superconductivity in double quantum dots. Physical Review B, 2014, 90, .	3.2	41
25	Nonlocal thermoelectricity in a Cooper-pair splitter. Physical Review B, 2019, 99, .	3.2	41
26	Two-dimensional hole precession in an all-semiconductor spin field effect transistor. Physical Review B, 2004, 69, .	3.2	39
27	Nonequilibrium Josephson and Andreev current through interacting quantum dots. New Journal of Physics, 2007, 9, 278-278.	2.9	38
28	Universal Rashba spin precession of two-dimensional electrons and holes. Europhysics Letters, 2004, 65, 850-856.	2.0	34
29	Andreev reflection and cyclotron motion at superconductorâ€"normal-metal interfaces. Physical Review B, 2005, 72, .	3.2	34
30	Probing the exchange field of a quantum-dot spin valve by a superconducting lead. Physical Review B, 2010, 82, .	3.2	34
31	Mesoscopic effects in tunneling between parallel quantum wires. Physical Review B, 2001, 64, .	3.2	31
32	Fame and obsolescence: Disentangling growth and aging dynamics of patent citations. Physical Review E, 2017, 95, 042309.	2.1	31
33	Rashba spin precession in quantum-Hall edge channels. Physical Review B, 2005, 71, .	3.2	28
34	Anticrossings of spin-split Landau levels in an InAs two-dimensional electron gas with spin-orbit coupling. Physical Review B, 2005, 71, .	3.2	27
35	Signatures of spin-related phases in transport through regular polygons. Physical Review B, 2005, 72, .	3.2	27
36	Pumping through a quantum dot in the proximity of a superconductor. Physical Review B, 2007, 75, .	3.2	27

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37	Adiabatic pumping in a double-dot Cooper-pair beam splitter. Physical Review B, 2011, 84, .	3.2	26
38	Adiabatic Pumping in a Superconductor-Normal-Superconductor Weak Link. Physical Review Letters, 2005, 95, 256801.	7.8	25
39	Superconductivity in the ferromagnetic semiconductor samarium nitride. Physical Review B, 2016, 94, .	3.2	25
40	Andreev interference in adiabatic pumping. Physical Review B, 2004, 70, .	3.2	24
41	Detection of the relaxation rates of an interacting quantum dot by a capacitively coupled sensor dot. Physical Review B, 2014, 89, .	3.2	24
42	Renormalization effects in interacting quantum dots coupled to superconducting leads. Physical Review B, 2013, 87, .	3.2	23
43	Double quantum dot Cooper-pair splitter at finite couplings. Physical Review B, 2016, 94, .	3.2	20
44	Unconventional superconductivity from magnetism in transition-metal dichalcogenides. Physical Review B, 2017, 95, .	3.2	20
45	Generation of pure spin currents by superconducting proximity effect in quantum dots. Europhysics Letters, 2010, 91, 47004.	2.0	19
46	Finite-frequency noise in a topological superconducting wire. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 75, 15-21.	2.7	19
47	Finite-frequency noise in a quantum dot with normal and superconducting leads. Physical Review B, 2015, 91, .	3.2	18
48	Operation of quantum cellular automaton cells with more than two electrons. Applied Physics Letters, 1999, 75, 3198-3200.	3.3	17
49	Diagrammatic real-time approach to adiabatic pumping through metallic single-electron devices. Physical Review B, 2009, 79, .	3.2	17
50	Single atom laser in normal-superconductor quantum dots. Physical Review B, 2019, 100, .	3.2	15
51	Interference and interaction effects in adiabatic pumping through quantum dots. Physical Review B, 2010, 81, .	3.2	14
52	Momentum-resolved tunneling into fractional quantum Hall edges. Physical Review B, 2002, 65, .	3.2	13
53	Spin-dependent transport through quantum-dot Aharonov-Bohm interferometers. Physical Review B, 2010, 82, .	3.2	13
54	Tunneling-induced renormalization in interacting quantum dots. Physical Review B, 2012, 86, .	3.2	12

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55	Theory of spin pumping through an interacting quantum dot tunnel coupled to a ferromagnet with time-dependent magnetization. Physical Review B, 2013, 87, .	3.2	12
56	Landau cooling in metalâ€“semiconductor nanostructures. New Journal of Physics, 2007, 9, 439-439.	2.9	11
57	Static polarizability of two-dimensional hole gases. New Journal of Physics, 2010, 12, 093002.	2.9	11
58	Shape of the tunneling conductance peaks for coupled electron waveguides. Physical Review B, 2000, 62, 4557-4566.	3.2	10
59	Cooling Electrons by Magnetic-Field Tuning of Andreev Reflection. Physical Review Letters, 2006, 97, 197001.	7.8	10
60	Driven superconducting proximity effect in interacting quantum dots. Physical Review B, 2012, 85, .	3.2	10
61	Suppression of Coulomb exchange energy in quasi-two-dimensional hole systems. Physical Review B, 2013, 88, .	3.2	10
62	Carrier-Density-Controlled Anisotropic Spin Susceptibility of Two-Dimensional Hole Systems. Physical Review Letters, 2013, 110, 026803.	7.8	9
63	Tunneling spectroscopy calculations of a Luttinger wire. Physical Review B, 2000, 62, 15996-16000.	3.2	8
64	ac Josephson transport through interacting quantum dots. Physical Review B, 2012, 86, .	3.2	8
65	Spin pumping through quantum dots. Physica Status Solidi (B): Basic Research, 2014, 251, 1912-1923.	1.5	8
66	Entanglementâ€symmetry control in a quantumâ€dot Cooperâ€pair splitter. Physica Status Solidi (B): Basic Research, 2017, 254, 1600603.	1.5	8
67	Quantum capacitance of an HgTe quantum well as an indicator of the topological phase. Physical Review B, 2016, 93, .	3.2	7
68	Finite-size effects in cylindrical topological insulators. New Journal of Physics, 2020, 22, 063042.	2.9	7
69	Filtering Spin with Tunnel-Coupled Hole Quantum Wires. Journal of Superconductivity and Novel Magnetism, 2003, 16, 257-260.	0.5	6
70	Superconductor-semiconductor magnetic microswitch. Applied Physics Letters, 2006, 88, 052502.	3.3	6
71	Band-mixing-mediated Andreev reflection of semiconductor holes. Physical Review B, 2011, 84, .	3.2	6
72	Exporting superconductivity across the gap: Proximity effect for semiconductor valence-band states due to contact with a simple-metal superconductor. Physical Review B, 2014, 89, .	3.2	6

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73	Anomalous Spin Response and Virtual-Carrier-Mediated Magnetism in a Topological Insulator. Physical Review X, 2016, 6, .	8.9	6
74	Finite-time full counting statistics and factorial cumulants for transport through a quantum dot with normal and superconducting leads. Journal of Physics Condensed Matter, 2016, 28, 145302.	1.8	5
75	Nonequilibrium Josephson and Andreev current through interacting quantum dots. New Journal of Physics, 2008, 10, 099801.	2.9	4
76	Spins Made to Order in Low Dimensions. Physics Magazine, 2012, 5, .	0.1	4
77	Reprint of : Finite-frequency noise in a topological superconducting wire. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 82, 254-260.	2.7	2
78	Magnetotunneling between parallel quantum wires: from coherent oscillations to spinâ€“charge separation. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 730-734.	2.7	1
79	Charge transport by modulating spin-orbit gauge fields for quasi-one-dimensional holes. Applied Physics Letters, 2011, 98, 152101.	3.3	1
80	Coulomb-exchange effects in nanowires with spin splitting due to a radial electric field. Physical Review B, 2015, 92, .	3.2	1
81	Configuration-interaction based simulation of a quantum cellular automaton cell. , 0, , .		0
82	ANDREEV INTERFEROMETRY FOR PUMPED CURRENTS. , 2005, , .		0
83	QCA Simulation with the Occupation-Number Hamiltonian. , 2006, , 17-23.		0
84	Special issue on â€œFundamental phenomena in low-dimensional electron systemsâ€• Solid State Communications, 2007, 144, 503.	1.9	0
85	Effect of Valence-Band Mixing on Density Oscillations in 2D Hole Systems. Materials Science Forum, 2011, 700, 89-92.	0.3	0
86	Problems and Perspectives in Quantum-Dot Based Computation. , 2000, , 455-466.		0
87	Momentum-resolved tunneling: Spectroscopic tool and basis for device applications. , 2003, , 269-279.		0
88	Implementation of QCA Cells in GaAs Technology. , 2006, , 179-212.		0
89	Non-Invasive Charge Detectors. , 2006, , 213-227.		0