

Ramon Aguado

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.

95
papers

5,357
citations

41
h-index

72
g-index

102
ext. papers

6,224
ext. citations

6.1
avg. IF

5.96
L-index

#	Paper	IF	Citations
95	Spin-resolved Andreev levels and parity crossings in hybrid superconductor-semiconductor nanostructures. <i>Nature Nanotechnology</i> , 2014 , 9, 79-84	28.7	389
94	Photon-assisted transport in semiconductor nanostructures. <i>Physics Reports</i> , 2004 , 395, 1-157	27.7	383
93	Spontaneous emission spectrum in double quantum dot devices. <i>Science</i> , 1998 , 282, 932-5	33.3	338
92	Zero-bias anomaly in a nanowire quantum dot coupled to superconductors. <i>Physical Review Letters</i> , 2012 , 109, 186802	7.4	259
91	Double quantum dots as detectors of high-frequency quantum noise in mesoscopic conductors. <i>Physical Review Letters</i> , 2000 , 84, 1986-9	7.4	241
90	Transport spectroscopy of NS nanowire junctions with Majorana fermions. <i>Physical Review B</i> , 2012 , 86,	3.3	207
89	Out-of-equilibrium kondo effect in double quantum dots. <i>Physical Review Letters</i> , 2000 , 85, 1946-9	7.4	194
88	Coupling nitrogen-vacancy centers in diamond to superconducting flux qubits. <i>Physical Review Letters</i> , 2010 , 105, 210501	7.4	178
87	ac Josephson effect in finite-length nanowire junctions with Majorana modes. <i>Physical Review Letters</i> , 2012 , 108, 257001	7.4	144
86	Nonequilibrium transport through double quantum dots: Kondo effect versus antiferromagnetic coupling. <i>Physical Review Letters</i> , 2002 , 89, 136802	7.4	133
85	Majorana bound states from exceptional points in non-topological superconductors. <i>Scientific Reports</i> , 2016 , 6, 21427	4.9	133
84	SU(4) Kondo effect in carbon nanotubes. <i>Physical Review Letters</i> , 2005 , 95, 067204	7.4	125
83	ac-Driven double quantum dots as spin pumps and spin filters. <i>Physical Review Letters</i> , 2005 , 94, 107202	7.4	122
82	Measuring Majorana nonlocality and spin structure with a quantum dot. <i>Physical Review B</i> , 2017 , 96,	3.3	115
81	Nonlocality of Majorana modes in hybrid nanowires. <i>Physical Review B</i> , 2018 , 98,	3.3	109
80	Shot noise spectrum of open dissipative quantum two-level systems. <i>Physical Review Letters</i> , 2004 , 92, 206601	7.4	106
79	SNS junctions in nanowires with spin-orbit coupling: Role of confinement and helicity on the subgap spectrum. <i>Physical Review B</i> , 2015 , 91,	3.3	100

78	Kondo effects in carbon nanotubes: From SU(4) to SU(2) symmetry. <i>Physical Review B</i> , 2006 , 74,	3.3	78
77	Shiba states and zero-bias anomalies in the hybrid normal-superconductor Anderson model. <i>Physical Review B</i> , 2015 , 91,	3.3	72
76	Frequency-dependent counting statistics in interacting nanoscale conductors. <i>Physical Review B</i> , 2007 , 76,	3.3	69
75	Kondo effect in coupled quantum dots: A noncrossing approximation study. <i>Physical Review B</i> , 2003 , 67,	3.3	68
74	Kondo Effect in ac Transport through Quantum Dots. <i>Physical Review Letters</i> , 1998 , 81, 4688-4691	7.4	67
73	Single-electron transport in electrically tunable nanomagnets. <i>Physical Review Letters</i> , 2007 , 98, 106805	7.4	65
72	Multiple Andreev reflection and critical current in topological superconducting nanowire junctions. <i>New Journal of Physics</i> , 2013 , 15, 075019	2.9	62
71	From Andreev to Majorana bound states in hybrid superconductor/semiconductor nanowires. <i>Nature Reviews Physics</i> , 2020 ,	23.6	60
70	Odd and even Kondo effects from emergent localization in quantum point contacts. <i>Nature</i> , 2013 , 501, 79-83	50.4	56
69	Nonequilibrium entanglement and noise in coupled qubits. <i>Physical Review B</i> , 2007 , 75,	3.3	56
68	Majorana Zero Modes in Graphene. <i>Physical Review X</i> , 2015 , 5,	9.1	55
67	Dynamical localization and absolute negative conductance in an ac-driven double quantum well. <i>Physical Review B</i> , 1997 , 55, 12860-12863	3.3	55
66	Shot noise in strongly correlated double quantum dots. <i>Physical Review B</i> , 2004 , 69,	3.3	55
65	Entanglement between charge qubits induced by a common dissipative environment. <i>Physical Review B</i> , 2008 , 77,	3.3	51
64	Majorana splitting from critical currents in Josephson junctions. <i>Physical Review B</i> , 2017 , 96,	3.3	50
63	Magnetic-field instability of Majorana modes in multiband semiconductor wires. <i>Physical Review B</i> , 2012 , 86,	3.3	49
62	Magnetic-field probing of an SU(4) Kondo resonance in a single-atom transistor. <i>Physical Review Letters</i> , 2012 , 108, 046803	7.4	47
61	Non-hermitian topology as a unifying framework for the Andreev versus Majorana states controversy. <i>Communications Physics</i> , 2019 , 2,	5.4	45

60	Finite-frequency counting statistics of electron transport: Markovian theory. <i>New Journal of Physics</i> , 2010 , 12, 123009	2.9	45
59	Microscopic model for sequential tunneling in semiconductor multiple quantum wells. <i>Physical Review B</i> , 1997 , 55, R16053-R16056	3.3	45
58	Low-temperature transport in ac-driven quantum dots in the Kondo regime. <i>Physical Review B</i> , 2001 , 64,	3.3	44
57	Coherent resonant tunneling in ac fields. <i>Physical Review B</i> , 1996 , 53, 10030-10041	3.3	44
56	Current self-oscillations, spikes, and crossover between charge monopole and dipole waves in semiconductor superlattices. <i>Physical Review B</i> , 1999 , 60, 4489-4492	3.3	42
55	Optical probing of spin fluctuations of a single paramagnetic Mn atom in a semiconductor quantum dot. <i>Physical Review B</i> , 2008 , 78,	3.3	41
54	Non-Markovian effects in the quantum noise of interacting nanostructures. <i>Physical Review B</i> , 2011 , 83,	3.3	38
53	Zero-energy pinning from interactions in Majorana nanowires. <i>Npj Quantum Materials</i> , 2017 , 2,	5	37
52	Spin-filtering through excited states in double-quantum-dot pumps. <i>Physical Review B</i> , 2006 , 74,	3.3	35
51	Mapping the topological phase diagram of multiband semiconductors with supercurrents. <i>Physical Review Letters</i> , 2014 , 112, 137001	7.4	34
50	Josephson current in strongly correlated double quantum dots. <i>Physical Review Letters</i> , 2010 , 105, 116803	7.4	34
49	Charge transport through open driven two-level systems with dissipation. <i>Physical Review B</i> , 2004 , 69,	3.3	34
48	Photoinduced Multistable Phenomena in the Tunneling Current through Doped Superlattices. <i>Physical Review Letters</i> , 1998 , 81, 4971-4974	7.4	33
47	Andreev spectrum and supercurrents in nanowire-based SNS junctions containing Majorana bound states. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 1339-1357	3	32
46	Scaling of subgap excitations in a superconductor-semiconductor nanowire quantum dot. <i>Physical Review B</i> , 2017 , 95,	3.3	30
45	Quantifying wave-function overlaps in inhomogeneous Majorana nanowires. <i>Physical Review B</i> , 2018 , 98,	3.3	30
44	Proximity-Induced Shiba States in a Molecular Junction. <i>Physical Review Letters</i> , 2017 , 118, 117001	7.4	29
43	Sequential tunneling current through semiconductor superlattices under intense THz radiation. <i>Applied Physics Letters</i> , 1997 , 70, 3546-3548	3.4	29

42	Spin-polarized pumping in a double quantum dot. <i>Nanotechnology</i> , 2003 , 14, 152-156	3.4	27
41	Magnetically-driven colossal supercurrent enhancement in InAs nanowire Josephson junctions. <i>Nature Communications</i> , 2017 , 8, 14984	17.4	25
40	Electron-photon interaction in resonant tunneling diodes. <i>Europhysics Letters</i> , 1997 , 40, 417-422	1.6	25
39	Quantum versus classical counting in non-Markovian master equations. <i>Physical Review B</i> , 2011 , 84,	3.3	23
38	Josephson current through a Kondo molecule. <i>Physical Review B</i> , 2007 , 75,	3.3	23
37	Non-equilibrium correlations and entanglement in a semiconductor hybrid circuit-QED system. <i>New Journal of Physics</i> , 2013 , 15, 095008	2.9	22
36	Majorana qubits for topological quantum computing. <i>Physics Today</i> , 2020 , 73, 44-50	0.9	20
35	Dynamic current susceptibility as a probe of Majorana bound states in nanowire-based Josephson junctions. <i>Physical Review B</i> , 2018 , 97,	3.3	17
34	Josephson current in carbon nanotubes with spin-orbit interaction. <i>Physical Review Letters</i> , 2011 , 107, 196801	7.4	17
33	Shot noise spectrum of artificial single-molecule magnets: Measuring spin relaxation times via the Dicke effect. <i>Physical Review B</i> , 2010 , 81,	3.3	16
32	Two-impurity Anderson model revisited: Competition between Kondo effect and reservoir-mediated superexchange in double quantum dots. <i>Physical Review B</i> , 2010 , 81,	3.3	15
31	Mn-doped II-VI quantum dots: artificial molecular magnets. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 3734-3739		15
30	Mirage Andreev Spectra Generated by Mesoscopic Leads in Nanowire Quantum Dots. <i>Physical Review Letters</i> , 2018 , 121, 127705	7.4	15
29	Nontopological zero-bias peaks in full-shell nanowires induced by flux-tunable Andreev states. <i>Science</i> , 2021 , 373, 82-88	33.3	14
28	A perspective on semiconductor-based superconducting qubits. <i>Applied Physics Letters</i> , 2020 , 117, 240501	3.4	11
27	Charge localization and reentrant superconductivity in a quasi-ballistic InAs nanowire coupled to superconductors. <i>Science Advances</i> , 2019 , 5, eaav1235	14.3	10
26	Current fluctuation spectrum in dissipative solid-state qubits. <i>European Physical Journal B</i> , 2004 , 40, 357-363	3.3	7
25	Even-odd effect and Majorana states in full-shell nanowires. <i>Physical Review Research</i> , 2020 , 2,	3.9	7

24	Dielectric function of diluted magnetic semiconductors in the infrared regime. <i>Physical Review B</i> , 2004 , 70,	3.3	6
23	Majorana oscillations and parity crossings in semiconductor nanowire-based transmon qubits. <i>Physical Review Research</i> , 2020 , 2,	3.9	6
22	Superconducting islands with topological Josephson junctions based on semiconductor nanowires. <i>Physical Review B</i> , 2020 , 102,	3.3	5
21	Photon-assisted tunneling in ac driven double quantum dot spin pumps. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 1154-1159	1.6	4
20	Anisotropic magnetoresistance in single electron transport. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2006 , 3, 4231-4234		3
19	Removing spin blockade by photon-assisted tunneling in double quantum dots. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3932-3936	1.3	3
18	Spin filter effect in an AC-driven double quantum dot. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006 , 34, 405-408	3	3
17	Magnetic field induced charge instabilities in weakly coupled superlattices. <i>Physica B: Condensed Matter</i> , 1998 , 256-258, 233-238	2.8	2
16	AC transport through a quantum dot: from Kondo to Coulomb-blockade behaviour. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000 , 6, 379-381	3	2
15	Dynamics of electric field domain walls in semiconductor superlattices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000 , 7, 299-301	3	2
14	Probing a single nuclear spin in a silicon single electron transistor. <i>Applied Physics Letters</i> , 2012 , 101, 072407	3.4	1
13	Zero-frequency shot noise in an artificial single molecule magnet. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 561-564	3	1
12	Electric Field Domain Formation and Multistability in Semiconductor Multiple Quantum Wells in the Presence of THz Radiation. <i>Physica Status Solidi A</i> , 1997 , 164, 235-239		1
11	AC Kondo effect in quantum dots. <i>Physica B: Condensed Matter</i> , 1998 , 256-258, 165-168	2.8	1
10	Photon assisted electric field domains in doped semiconductor superlattices. <i>Physica B: Condensed Matter</i> , 1998 , 249-251, 904-908	2.8	
9	Spin currents in AC-driven double quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 497-500		
8	Transport in quantum dots in the Kondo regime under the influence of an AC potential. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002 , 12, 810-814	3	
7	Many-body effects and quantum coherence in electron transport through quantum dots. <i>International Journal of Nanotechnology</i> , 2005 , 2, 129	1.5	

- 6 Resonant tunneling in time-dependent fields through laterally confined double barriers. *Surface Science*, **1996**, 361-362, 217-221 1.8
- 5 Kondo Photo-Assisted Transport in Quantum Dots **2000**, 310-310
- 4 Non-Linear Charge Dynamics in Semiconductor Superlattices **2000**, 334-335
- 3 Hysteretic Linear Conductance in Single Electron Transport through a Single Atom Magnet. *Mathematics in Industry*, **2008**, 460-465 0.2
- 2 Position Dependent AC Potential Versus Homogeneous Irradiation Applied to Resonant Heterostructures **1996**, 547-550
- 1 Resonant Tunneling Through Nanostructures in Ac Fields **1996**, 327-351