

# Ramon Aguado

## List of Publications by Year in Descending Order

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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	Nontopological zero-bias peaks in full-shell nanowires induced by flux-tunable Andreev states. <i>Science</i> , <b>2021</b> , 373, 82-88	33.3	14
94	A perspective on semiconductor-based superconducting qubits. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 2405014	3.14	11
93	Superconducting islands with topological Josephson junctions based on semiconductor nanowires. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	5
92	Majorana qubits for topological quantum computing. <i>Physics Today</i> , <b>2020</b> , 73, 44-50	0.9	20
91	Even-odd effect and Majorana states in full-shell nanowires. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	7
90	Majorana oscillations and parity crossings in semiconductor nanowire-based transmon qubits. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	6
89	From Andreev to Majorana bound states in hybrid superconductor-semiconductor nanowires. <i>Nature Reviews Physics</i> , <b>2020</b> ,	23.6	60
88	Non-hermitian topology as a unifying framework for the Andreev versus Majorana states controversy. <i>Communications Physics</i> , <b>2019</b> , 2,	5.4	45
87	Charge localization and reentrant superconductivity in a quasi-ballistic InAs nanowire coupled to superconductors. <i>Science Advances</i> , <b>2019</b> , 5, eaav1235	14.3	10
86	Dynamic current susceptibility as a probe of Majorana bound states in nanowire-based Josephson junctions. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	17
85	Nonlocality of Majorana modes in hybrid nanowires. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	109
84	Quantifying wave-function overlaps in inhomogeneous Majorana nanowires. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	30
83	Mirage Andreev Spectra Generated by Mesoscopic Leads in Nanowire Quantum Dots. <i>Physical Review Letters</i> , <b>2018</b> , 121, 127705	7.4	15
82	Andreev spectrum and supercurrents in nanowire-based SNS junctions containing Majorana bound states. <i>Beilstein Journal of Nanotechnology</i> , <b>2018</b> , 9, 1339-1357	3	32
81	Magnetically-driven colossal supercurrent enhancement in InAs nanowire Josephson junctions. <i>Nature Communications</i> , <b>2017</b> , 8, 14984	17.4	25
80	Proximity-Induced Shiba States in a Molecular Junction. <i>Physical Review Letters</i> , <b>2017</b> , 118, 117001	7.4	29
79	Measuring Majorana nonlocality and spin structure with a quantum dot. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	115

78	Majorana splitting from critical currents in Josephson junctions. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	50
77	Scaling of subgap excitations in a superconductor-semiconductor nanowire quantum dot. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	30
76	Zero-energy pinning from interactions in Majorana nanowires. <i>Npj Quantum Materials</i> , <b>2017</b> , 2,	5	37
75	Majorana bound states from exceptional points in non-topological superconductors. <i>Scientific Reports</i> , <b>2016</b> , 6, 21427	4.9	133
74	Shiba states and zero-bias anomalies in the hybrid normal-superconductor Anderson model. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	72
73	SNS junctions in nanowires with spin-orbit coupling: Role of confinement and helicity on the subgap spectrum. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	100
72	Majorana Zero Modes in Graphene. <i>Physical Review X</i> , <b>2015</b> , 5,	9.1	55
71	Spin-resolved Andreev levels and parity crossings in hybrid superconductor-semiconductor nanostructures. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 79-84	28.7	389
70	Mapping the topological phase diagram of multiband semiconductors with supercurrents. <i>Physical Review Letters</i> , <b>2014</b> , 112, 137001	7.4	34
69	Odd and even Kondo effects from emergent localization in quantum point contacts. <i>Nature</i> , <b>2013</b> , 501, 79-83	50.4	56
68	Non-equilibrium correlations and entanglement in a semiconductor hybrid circuit-QED system. <i>New Journal of Physics</i> , <b>2013</b> , 15, 095008	2.9	22
67	Multiple Andreev reflection and critical current in topological superconducting nanowire junctions. <i>New Journal of Physics</i> , <b>2013</b> , 15, 075019	2.9	62
66	Zero-bias anomaly in a nanowire quantum dot coupled to superconductors. <i>Physical Review Letters</i> , <b>2012</b> , 109, 186802	7.4	259
65	Magnetic-field instability of Majorana modes in multiband semiconductor wires. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	49
64	Magnetic-field probing of an SU(4) Kondo resonance in a single-atom transistor. <i>Physical Review Letters</i> , <b>2012</b> , 108, 046803	7.4	47
63	ac Josephson effect in finite-length nanowire junctions with Majorana modes. <i>Physical Review Letters</i> , <b>2012</b> , 108, 257001	7.4	144
62	Probing a single nuclear spin in a silicon single electron transistor. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 072407	3.4	1
61	Transport spectroscopy of NS nanowire junctions with Majorana fermions. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	207

60	Non-Markovian effects in the quantum noise of interacting nanostructures. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	38
59	Josephson current in carbon nanotubes with spin-orbit interaction. <i>Physical Review Letters</i> , <b>2011</b> , 107, 196801	7.4	17
58	Quantum versus classical counting in non-Markovian master equations. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	23
57	Shot noise spectrum of artificial single-molecule magnets: Measuring spin relaxation times via the Dicke effect. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	16
56	Coupling nitrogen-vacancy centers in diamond to superconducting flux qubits. <i>Physical Review Letters</i> , <b>2010</b> , 105, 210501	7.4	178
55	Finite-frequency counting statistics of electron transport: Markovian theory. <i>New Journal of Physics</i> , <b>2010</b> , 12, 123009	2.9	45
54	Josephson current in strongly correlated double quantum dots. <i>Physical Review Letters</i> , <b>2010</b> , 105, 116803	3.4	34
53	Two-impurity Anderson model revisited: Competition between Kondo effect and reservoir-mediated superexchange in double quantum dots. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	15
52	Zero-frequency shot noise in an artificial single molecule magnet. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2010</b> , 42, 561-564	3	1
51	Entanglement between charge qubits induced by a common dissipative environment. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	51
50	Optical probing of spin fluctuations of a single paramagnetic Mn atom in a semiconductor quantum dot. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	41
49	Hysteretic Linear Conductance in Single Electron Transport through a Single Atom Magnet. <i>Mathematics in Industry</i> , <b>2008</b> , 460-465	0.2	
48	Spin currents in AC-driven double quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2007</b> , 4, 497-500		
47	Frequency-dependent counting statistics in interacting nanoscale conductors. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	69
46	Nonequilibrium entanglement and noise in coupled qubits. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	56
45	Josephson current through a Kondo molecule. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	23
44	Single-electron transport in electrically tunable nanomagnets. <i>Physical Review Letters</i> , <b>2007</b> , 98, 106805	7.4	65
43	Kondo effects in carbon nanotubes: From SU(4) to SU(2) symmetry. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	78

42	Spin-filtering through excited states in double-quantum-dot pumps. <i>Physical Review B</i> , <b>2006</b> , 74,	3-3	35
41	Mn-doped II-VI quantum dots: artificial molecular magnets. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 3734-3739		15
40	Anisotropic magnetoresistance in single electron transport. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2006</b> , 3, 4231-4234		3
39	Photon-assisted tunneling in ac driven double quantum dot spin pumps. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2006</b> , 203, 1154-1159	1.6	4
38	Removing spin blockade by photon-assisted tunneling in double quantum dots. <i>Physica Status Solidi (B): Basic Research</i> , <b>2006</b> , 243, 3932-3936	1-3	3
37	Spin filter effect in an AC-driven double quantum dot. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2006</b> , 34, 405-408	3	3
36	Many-body effects and quantum coherence in electron transport through quantum dots. <i>International Journal of Nanotechnology</i> , <b>2005</b> , 2, 129	1.5	
35	SU(4) Kondo effect in carbon nanotubes. <i>Physical Review Letters</i> , <b>2005</b> , 95, 067204	7-4	125
34	ac-Driven double quantum dots as spin pumps and spin filters. <i>Physical Review Letters</i> , <b>2005</b> , 94, 107202	7.4	122
33	Charge transport through open driven two-level systems with dissipation. <i>Physical Review B</i> , <b>2004</b> , 69,	3-3	34
32	Shot noise spectrum of open dissipative quantum two-level systems. <i>Physical Review Letters</i> , <b>2004</b> , 92, 206601	7-4	106
31	Dielectric function of diluted magnetic semiconductors in the infrared regime. <i>Physical Review B</i> , <b>2004</b> , 70,	3-3	6
30	Current fluctuation spectrum in dissipative solid-state qubits. <i>European Physical Journal B</i> , <b>2004</b> , 40, 357-363	3-3	7
29	Photon-assisted transport in semiconductor nanostructures. <i>Physics Reports</i> , <b>2004</b> , 395, 1-157	27-7	383
28	Shot noise in strongly correlated double quantum dots. <i>Physical Review B</i> , <b>2004</b> , 69,	3-3	55
27	Spin-polarized pumping in a double quantum dot. <i>Nanotechnology</i> , <b>2003</b> , 14, 152-156	3-4	27
26	Kondo effect in coupled quantum dots: A noncrossing approximation study. <i>Physical Review B</i> , <b>2003</b> , 67,	3-3	68
25	Transport in quantum dots in the Kondo regime under the influence of an AC potential. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2002</b> , 12, 810-814	3	

24	Nonequilibrium transport through double quantum dots: Kondo effect versus antiferromagnetic coupling. <i>Physical Review Letters</i> , <b>2002</b> , 89, 136802	7.4	133
23	Low-temperature transport in ac-driven quantum dots in the Kondo regime. <i>Physical Review B</i> , <b>2001</b> , 64,	3.3	44
22	AC transport through a quantum dot: from Kondo to Coulomb-blockade behaviour. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2000</b> , 6, 379-381	3	2
21	Dynamics of electric field domain walls in semiconductor superlattices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2000</b> , 7, 299-301	3	2
20	Double quantum dots as detectors of high-frequency quantum noise in mesoscopic conductors. <i>Physical Review Letters</i> , <b>2000</b> , 84, 1986-9	7.4	241
19	Out-of-equilibrium kondo effect in double quantum dots. <i>Physical Review Letters</i> , <b>2000</b> , 85, 1946-9	7.4	194
18	Kondo Photo-Assisted Transport in Quantum Dots <b>2000</b> , 310-310		
17	Non-Linear Charge Dynamics in Semiconductor Superlattices <b>2000</b> , 334-335		
16	Current self-oscillations, spikes, and crossover between charge monopole and dipole waves in semiconductor superlattices. <i>Physical Review B</i> , <b>1999</b> , 60, 4489-4492	3.3	42
15	Photon assisted electric field domains in doped semiconductor superlattices. <i>Physica B: Condensed Matter</i> , <b>1998</b> , 249-251, 904-908	2.8	
14	Magnetic field induced charge instabilities in weakly coupled superlattices. <i>Physica B: Condensed Matter</i> , <b>1998</b> , 256-258, 233-238	2.8	2
13	AC Kondo effect in quantum dots. <i>Physica B: Condensed Matter</i> , <b>1998</b> , 256-258, 165-168	2.8	1
12	Spontaneous emission spectrum in double quantum dot devices. <i>Science</i> , <b>1998</b> , 282, 932-5	33.3	338
11	Photoinduced Multistable Phenomena in the Tunneling Current through Doped Superlattices. <i>Physical Review Letters</i> , <b>1998</b> , 81, 4971-4974	7.4	33
10	Kondo Effect in ac Transport through Quantum Dots. <i>Physical Review Letters</i> , <b>1998</b> , 81, 4688-4691	7.4	67
9	Microscopic model for sequential tunneling in semiconductor multiple quantum wells. <i>Physical Review B</i> , <b>1997</b> , 55, R16053-R16056	3.3	45
8	Sequential tunneling current through semiconductor superlattices under intense THz radiation. <i>Applied Physics Letters</i> , <b>1997</b> , 70, 3546-3548	3.4	29
7	Electron-photon interaction in resonant tunneling diodes. <i>Europhysics Letters</i> , <b>1997</b> , 40, 417-422	1.6	25

- 6 Dynamical localization and absolute negative conductance in an ac-driven double quantum well. *Physical Review B*, **1997**, 55, 12860-12863 3.3 55
- 5 Electric Field Domain Formation and Multistability in Semiconductor Multiple Quantum Wells in the Presence of THz Radiation. *Physica Status Solidi A*, **1997**, 164, 235-239 1
- 4 Coherent resonant tunneling in ac fields. *Physical Review B*, **1996**, 53, 10030-10041 3.3 44
- 3 Resonant tunneling in time-dependent fields through laterally confined double barriers. *Surface Science*, **1996**, 361-362, 217-221 1.8
- 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