

# Pedro A Orellana

## List of Publications by Year in descending order

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77  
papers

1,819  
citations

304368

22  
h-index

276539

41  
g-index

77  
all docs

77  
docs citations

77  
times ranked

1047  
citing authors

#	ARTICLE	IF	CITATIONS
1	Manipulation of Majorana bound states in proximity to a quantum ring with Rashba coupling. Scientific Reports, 2022, 12, 1071.	1.6	2
2	Manipulating photonic signals by a multipurpose quantum junction. Physical Review A, 2022, 105, .	1.0	1
3	Dicke and Fano-Andreev reflections in a triple quantum-dot system. Scientific Reports, 2021, 11, 3941.	1.6	3
4	Majorana Bound States Hallmarks in a Quantum Topological Interferometer Ring. Annalen Der Physik, 2021, 533, 2100040.	0.9	1
5	Josephson and Persistent Currents in a Quantum Ring between Topological Superconductors. Annalen Der Physik, 2021, 533, 2100305.	0.9	1
6	Influence of Majorana Bound States in Quantum Rings. Annalen Der Physik, 2020, 532, 2000199.	0.9	2
7	Fano-Andreev and Fano-Majorana Correspondence in Quantum Dot Hybrid Structures. Annalen Der Physik, 2020, 532, 1900409.	0.9	7
8	Tuning the thermoelectric response of silicene nanoribbons with vacancies. Journal of Physics Condensed Matter, 2020, 32, 275301.	0.7	4
9	Majorana bound state in the continuum: Coupling between a Majorana bound state and a quantum dot mediated by a continuum energy spectrum. Physical Review B, 2020, 101, .	1.1	8
10	Quasistatic and quantum-adiabatic Otto engine for a two-dimensional material: The case of a graphene quantum dot. Physical Review E, 2020, 101, 012116.	0.8	18
11	A microscopic approach to heating rate of ferrofluid droplets by a magnetic field. Journal of Applied Physics, 2019, 125, 045104.	1.1	0
12	Magnetic Otto Engine for an Electron in a Quantum Dot: Classical and Quantum Approach. Entropy, 2019, 21, 512.	1.1	16
13	Fano-Rashba effect and enhancement of figure of merit and violation of Wiedemann-Franz law. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 114, 113618.	1.3	2
14	Fano-Majorana Effect and Bound States in the Continuum on a Crossbar-Shaped Quantum Dot Hybrid Structure. Annalen Der Physik, 2019, 531, 1800498.	0.9	11
15	Tunable single-photon quantum router. Physical Review A, 2019, 99, .	1.0	37
16	Tunable Spin-Polarized Edge Currents in Proximitized Transition Metal Dichalcogenides. Physical Review Letters, 2019, 122, 086401.	2.9	36
17	Enhancement of the thermoelectric efficiency in a T-shaped quantum dot system in the linear and nonlinear regimes. Journal of Applied Physics, 2018, 123, .	1.1	5
18	Stacking change in MoS2 bilayers induced by interstitial Mo impurities. Scientific Reports, 2018, 8, 2143.	1.6	18

#	ARTICLE	IF	CITATIONS
19	Detecting coupling of Majorana bound states with an Aharonov-Bohm interferometer. Journal of Physics Condensed Matter, 2018, 30, 045301.	0.7	10
20	Bound states in the continuum in whispering gallery resonators. Physical Review A, 2018, 98, .	1.0	8
21	Bound states in the continuum poisoned by Majorana fermions. Journal of Physics Condensed Matter, 2018, 30, 375301.	0.7	6
22	Photon-assisted transport in bilayer graphene flakes. Physical Review B, 2017, 95, .	1.1	9
23	Fano-Andreev effect in a T-shape double quantum dot in the Kondo regime. Journal of Physics Condensed Matter, 2017, 29, 135301.	0.7	11
24	Spin-Seebeck effect and spin polarization in a multiple quantum dot molecule. Physical Review B, 2017, 96, .	1.1	17
25	Spin-polarized electric current in silicene nanoribbons induced by atomic adsorption. Physical Review B, 2017, 96, .	1.1	12
26	Enhancement of thermoelectric efficiency by quantum interference effects in trilayer silicene flakes. Journal of Physics Condensed Matter, 2017, 29, 015004.	0.7	4
27	Magnetic Engine for the Single-Particle Landau Problem. Entropy, 2017, 19, 639.	1.1	12
28	Optoelectronic Properties of Van Der Waals Hybrid Structures: Fullerenes on Graphene Nanoribbons. Nanomaterials, 2017, 7, 69.	1.9	15
29	Electron localization due to side-attached molecules on graphene nanoribbons. Journal of Applied Physics, 2016, 120, 164310.	1.1	2
30	Optimization of a relativistic quantum mechanical engine. Physical Review E, 2016, 94, 022109.	0.8	18
31	Thermoelectric transport through Majorana bound states and violation of Wiedemann-Franz law. Physical Review B, 2016, 94, .	1.1	27
32	Silicene-based spin-filter device: impact of random vacancies. 2D Materials, 2016, 3, 025006.	2.0	22
33	Enhancing thermoelectric properties of graphene quantum rings. Physical Review B, 2015, 91, .	1.1	40
34	Bound states in the continuum: Localization of Dirac-like fermions. Europhysics Letters, 2014, 108, 46008.	0.7	11
35	Single-parameter spin-pumping in driven metallic rings with spin-orbit coupling. Journal of Applied Physics, 2014, 115, 124507.	1.1	2
36	Bound states in the continuum and spin filter in quantum-dot molecules. Physica B: Condensed Matter, 2014, 455, 66-70.	1.3	15

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37	Aromatic molecules as spintronic devices. <i>Journal of Chemical Physics</i> , 2014, 140, 104308.	1.2	13
38	Conductance and Thermopower of a Quantum Dot with Fano-Rashba Effect. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 2209-2212.	0.8	2
39	Fano-Kondo and the Kondo box regimes crossover in a quantum dot coupled to a quantum box. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 505601.	0.7	0
40	Graphene nanoribbon thermopower as a tool for molecular spectroscopy. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	8
41	DNA Molecule as a Spintronic Device. <i>Journal of Superconductivity and Novel Magnetism</i> , 2013, 26, 2227-2230.	0.8	3
42	Spin-polarized electrons in bilayer graphene ribbons. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	14
43	Bound states in the continuum driven by AC fields. <i>Europhysics Letters</i> , 2013, 102, 17012.	0.7	22
44	Strong spin-dependent negative differential resistance in composite graphene superlattices. <i>Physical Review B</i> , 2013, 88, .	1.1	25
45	Enhancement of thermoelectric efficiency and violation of the Wiedemann-Franz law due to Fano effect. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	54
46	Electronic transport of folded graphene nanoribbons. <i>Solid State Communications</i> , 2012, 152, 1400-1403.	0.9	9
47	Graphene nanoring as a tunable source of polarized electrons. <i>Nanotechnology</i> , 2012, 23, 205202.	1.3	20
48	Capacitively coupled double quantum dot system in the Kondo regime. <i>Physical Review B</i> , 2011, 84, .	1.1	20
49	Transport properties of graphene quantum dots. <i>Physical Review B</i> , 2011, 83, .	1.1	37
50	Bound states in the continuum in graphene quantum dot structures. <i>Europhysics Letters</i> , 2010, 91, 66001.	0.7	46
51	Suppression of Kondo screening by the Dicke effect in multiple quantum dots. <i>Physical Review B</i> , 2010, 82, .	1.1	31
52	An array of quantum dots as a spin filter device by using Dicke and Fano effects. <i>Nanotechnology</i> , 2009, 20, 434013.	1.3	36
53	Conductance gaps in graphene ribbons designed by molecular aggregations. <i>Nanotechnology</i> , 2009, 20, 095705.	1.3	17
54	Trapping and motion of polarons in weakly disordered DNA molecules. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 285105.	0.7	15

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55	Transport properties of antidot superlattices of graphene nanoribbons. <i>Physical Review B</i> , 2009, 80, .	1.1	54
56	Transport properties of graphene nanoribbons with side-attached organic molecules. <i>Nanotechnology</i> , 2008, 19, 065402.	1.3	48
57	Fano Rashba effect in quantum dots. <i>Nanotechnology</i> , 2008, 19, 195401.	1.3	17
58	Fano and Dicke effects in a double Rashba-ring system. <i>Nanotechnology</i> , 2008, 19, 355202.	1.3	8
59	Negative differential conductance induced by electronic correlation in a double quantum dot molecule. <i>Physical Review B</i> , 2008, 78, .	1.1	11
60	Photon-assisted transport in a carbon nanotube calculated using Green's function techniques. <i>Physical Review B</i> , 2007, 75, .	1.1	46
61	Quantum electron splitter based on two quantum dots attached to leads. <i>Physical Review B</i> , 2006, 74, .	1.1	15
62	Electronic transport through a parallel-coupled triple quantum dot molecule: Fano resonances and bound states in the continuum. <i>Physical Review B</i> , 2006, 73, .	1.1	152
63	Quantum transport of electrons through a parallel-coupled triple quantum-dot molecule. <i>Brazilian Journal of Physics</i> , 2006, 36, 913-916.	0.7	2
64	Kondo and Fano effect in side attached double quantum-dot molecule. <i>Brazilian Journal of Physics</i> , 2006, 36, 820-823.	0.7	1
65	Design of an efficient spin filter device. <i>Semiconductor Science and Technology</i> , 2006, 21, 1764-1767.	1.0	3
66	Kondo and Dicke effect in quantum dots side coupled to a quantum wire. <i>Physical Review B</i> , 2006, 74, .	1.1	32
67	Kondo effect in side coupled double quantum-dot molecule. <i>Solid State Communications</i> , 2005, 136, 323-327.	0.9	11
68	Persistent current magnification in a double quantum-ring system. <i>Physical Review B</i> , 2005, 71, .	1.1	34
69	Controlling Fano and Dicke effects via a magnetic flux in a two-site Anderson model. <i>Physical Review B</i> , 2004, 70, .	1.1	88
70	Tristability in a non-equilibrium double-quantum-dot in the Kondo regime. <i>Solid State Communications</i> , 2003, 125, 165-169.	0.9	6
71	Kondo effect in a double quantum-dot molecule under the effect of an electric and magnetic field. <i>Solid State Communications</i> , 2003, 126, 551-555.	0.9	2
72	Kondo effect and tristability in a double-quantum dot. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003, 17, 152-153.	1.3	0

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73	Conductance and persistent current of a quantum ring coupled to a quantum wire under external fields. <i>Physical Review B</i> , 2003, 68, .	1.1	54
74	Ghost Fano resonance in a double quantum dot molecule attached to leads. <i>Physical Review B</i> , 2003, 67, .	1.1	289
75	Transport through a quantum wire with a side quantum-dot array. <i>Physical Review B</i> , 2003, 67, .	1.1	130
76	Kondo effect and bistability in a double quantum dot. <i>Physical Review B</i> , 2002, 65, .	1.1	30
77	Transport signatures of few-atom carbon rings. <i>Physical Chemistry Chemical Physics</i> , 0, , .	1.3	1