

# Elsa Prada

## 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.

52  
papers

3,449  
citations

29  
h-index

53  
g-index

53  
ext. papers

4,230  
ext. citations

6  
avg. IF

5.56  
L-index

#	Paper	IF	Citations
52	Isolation and characterization of few-layer black phosphorus. <i>2D Materials</i> , <b>2014</b> , 1, 025001	5.9	1163
51	Transport spectroscopy of NS nanowire junctions with Majorana fermions. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	207
50	ac Josephson effect in finite-length nanowire junctions with Majorana modes. <i>Physical Review Letters</i> , <b>2012</b> , 108, 257001	7.4	144
49	Majorana bound states from exceptional points in non-topological superconductors. <i>Scientific Reports</i> , <b>2016</b> , 6, 21427	4.9	133
48	Pseudospin valve in bilayer graphene: towards graphene-based pseudospintronics. <i>Physical Review Letters</i> , <b>2009</b> , 102, 247204	7.4	125
47	Measuring Majorana nonlocality and spin structure with a quantum dot. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	115
46	Nonlocality of Majorana modes in hybrid nanowires. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	109
45	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
44	Quantum pumping in graphene. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	97
43	Theory of 2D crystals: graphene and beyond. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 4387-4399	58.5	91
42	Helical networks in twisted bilayer graphene under interlayer bias. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	82
41	Band topology and the quantum spin Hall effect in bilayer graphene. <i>Solid State Communications</i> , <b>2011</b> , 151, 1075-1083	1.6	68
40	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
39	From Andreev to Majorana bound states in hybrid superconductor-semiconductor nanowires. <i>Nature Reviews Physics</i> , <b>2020</b> ,	23.6	60
38	Zero Landau level in folded graphene nanoribbons. <i>Physical Review Letters</i> , <b>2010</b> , 105, 106802	7.4	55
37	Single-parameter pumping in graphene. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	52
36	Exciton diffusion in two-dimensional metal-halide perovskites. <i>Nature Communications</i> , <b>2020</b> , 11, 2035	17.4	51

35	Universal scaling of current fluctuations in disordered graphene. <i>Physical Review B</i> , <b>2007</b> , 76,	3-3	51
34	Majorana splitting from critical currents in Josephson junctions. <i>Physical Review B</i> , <b>2017</b> , 96,	3-3	50
33	Entangled electron current through finite size normal-superconductor tunneling structures. <i>European Physical Journal B</i> , <b>2004</b> , 40, 379-396	1.2	48
32	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
31	Pseudodiffusive magnetotransport in graphene. <i>Physical Review B</i> , <b>2007</b> , 75,	3-3	42
30	Effective-mass theory for the anisotropic exciton in two-dimensional crystals: Application to phosphorene. <i>Physical Review B</i> , <b>2015</b> , 91,	3-3	39
29	Zero-energy pinning from interactions in Majorana nanowires. <i>Npj Quantum Materials</i> , <b>2017</b> , 2,	5	37
28	Mapping the topological phase diagram of multiband semiconductors with supercurrents. <i>Physical Review Letters</i> , <b>2014</b> , 112, 137001	7-4	34
27	Laser-induced quantum pumping in graphene. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 153506	3-4	33
26	Singular elastic strains and magnetoconductance of suspended graphene. <i>Physical Review B</i> , <b>2010</b> , 81,	3-3	33
25	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
24	Quantifying wave-function overlaps in inhomogeneous Majorana nanowires. <i>Physical Review B</i> , <b>2018</b> , 98,	3-3	30
23	Inverse Funnel Effect of Excitons in Strained Black Phosphorus. <i>Physical Review X</i> , <b>2016</b> , 6,	9.1	29
22	Gate-controlled conductance through bilayer graphene ribbons. <i>Physical Review B</i> , <b>2011</b> , 83,	3-3	25
21	Interaction-induced zero-energy pinning and quantum dot formation in Majorana nanowires. <i>Beilstein Journal of Nanotechnology</i> , <b>2018</b> , 9, 2171-2180	3	20
20	Strain-induced bound states in transition-metal dichalcogenide bubbles. <i>2D Materials</i> , <b>2019</b> , 6, 025010	5-9	19
19	Quantum Hall effect in graphene with twisted bilayer stripe defects. <i>Physical Review B</i> , <b>2013</b> , 87,	3-3	19
18	Strong modulation of optical properties in rippled 2D GaSe via strain engineering. <i>Nanotechnology</i> , <b>2019</b> , 30, 24LT01	3-4	15

17	Gate driven adiabatic quantum pumping in graphene. <i>Solid State Communications</i> , <b>2011</b> , 151, 1065-1070	1.6	15
16	Mirage Andreev Spectra Generated by Mesoscopic Leads in Nanowire Quantum Dots. <i>Physical Review Letters</i> , <b>2018</b> , 121, 127705	7.4	15
15	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
14	Transport through quantum spin Hall insulator/metal junctions in graphene ribbons. <i>Journal of Computational Electronics</i> , <b>2013</b> , 12, 63-75	1.8	13
13	Effect of inelastic scattering on spin entanglement detection through current noise. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	13
12	Disorder-induced pseudodiffusive transport in graphene nanoribbons. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	10
11	Effects of the electrostatic environment on superlattice Majorana nanowires. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	9
10	Clauser-Horne inequality and decoherence in mesoscopic conductors. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	8
9	Even-odd effect and Majorana states in full-shell nanowires. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	7
8	Divergent beams of nonlocally entangled electrons emitted from hybrid normal-superconducting structures. <i>New Journal of Physics</i> , <b>2005</b> , 7, 231-231	2.9	6
7	Majorana oscillations and parity crossings in semiconductor nanowire-based transmon qubits. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	6
6	Superconducting islands with topological Josephson junctions based on semiconductor nanowires. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	5
5	Zener tunneling isospin Hall effect in HgTe quantum wells and graphene multilayers. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	5
4	Clauser-Horne inequality for the full counting statistics. <i>New Journal of Physics</i> , <b>2005</b> , 7, 183-183	2.9	3
3	Improved effective equation for the Rashba spin-orbit coupling in semiconductor nanowires. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	3
2	Magnetic Skyrmions Could Act as Qubits. <i>Physics Magazine</i> , <b>2011</b> , 4,	1.1	1
1	Tunable proximity effects and topological superconductivity in ferromagnetic hybrid nanowires. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	1