

# Elsa Prada

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1207704/publications.pdf>

Version: 2024-02-01

53  
papers

4,792  
citations

147801

31  
h-index

168389

53  
g-index

53  
all docs

53  
docs citations

53  
times ranked

5649  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fluxoid-induced pairing suppression and near-zero modes in quantum dots coupled to full-shell nanowires. <i>Physical Review B</i> , 2022, 105, .	3.2	4
2	Tunable proximity effects and topological superconductivity in ferromagnetic hybrid nanowires. <i>Physical Review B</i> , 2021, 104, .	3.2	13
3	Nontopological zero-bias peaks in full-shell nanowires induced by flux-tunable Andreev states. <i>Science</i> , 2021, 373, 82-88.	12.6	69
4	From Andreev to Majorana bound states in hybrid superconductor-semiconductor nanowires. <i>Nature Reviews Physics</i> , 2020, 2, 575-594.	26.6	251
5	Superconducting islands with topological Josephson junctions based on semiconductor nanowires. <i>Physical Review B</i> , 2020, 102, .	3.2	17
6	Exciton diffusion in two-dimensional metal-halide perovskites. <i>Nature Communications</i> , 2020, 11, 2035.	12.8	113
7	Even-odd effect and Majorana states in full-shell nanowires. <i>Physical Review Research</i> , 2020, 2, .	3.6	17
8	Improved effective equation for the Rashba spin-orbit coupling in semiconductor nanowires. <i>Physical Review Research</i> , 2020, 2, .	3.6	12
9	Majorana oscillations and parity crossings in semiconductor nanowire-based transmon qubits. <i>Physical Review Research</i> , 2020, 2, .	3.6	19
10	Effects of the electrostatic environment on superlattice Majorana nanowires. <i>Physical Review B</i> , 2019, 100, .	3.2	16
11	Non-hermitian topology as a unifying framework for the Andreev versus Majorana states controversy. <i>Communications Physics</i> , 2019, 2, .	5.3	96
12	Strong modulation of optical properties in rippled 2D GaSe via strain engineering. <i>Nanotechnology</i> , 2019, 30, 24LT01.	2.6	21
13	Strain-induced bound states in transition-metal dichalcogenide bubbles. <i>2D Materials</i> , 2019, 6, 025010.	4.4	28
14	Quantifying wave-function overlaps in inhomogeneous Majorana nanowires. <i>Physical Review B</i> , 2018, 98, .	3.2	58
15	Mirage Andreev Spectra Generated by Mesoscopic Leads in Nanowire Quantum Dots. <i>Physical Review Letters</i> , 2018, 121, 127705.	7.8	27
16	Interaction-induced zero-energy pinning and quantum dot formation in Majorana nanowires. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 2171-2180.	2.8	28
17	Andreev spectrum and supercurrents in nanowire-based SNS junctions containing Majorana bound states. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 1339-1357.	2.8	46
18	Nonlocality of Majorana modes in hybrid nanowires. <i>Physical Review B</i> , 2018, 98, .	3.2	173

#	ARTICLE	IF	CITATIONS
19	Theory of 2D crystals: graphene and beyond. <i>Chemical Society Reviews</i> , 2017, 46, 4387-4399.	38.1	121
20	Measuring Majorana nonlocality and spin structure with a quantum dot. <i>Physical Review B</i> , 2017, 96, .	3.2	162
21	Majorana splitting from critical currents in Josephson junctions. <i>Physical Review B</i> , 2017, 96, .	3.2	76
22	Zero-energy pinning from interactions in Majorana nanowires. <i>Npj Quantum Materials</i> , 2017, 2, .	5.2	52
23	Majorana bound states from exceptional points in non-topological superconductors. <i>Scientific Reports</i> , 2016, 6, 21427.	3.3	201
24	Inverse Funnel Effect of Excitons in Strained Black Phosphorus. <i>Physical Review X</i> , 2016, 6, .	8.9	34
25	Effective-mass theory for the anisotropic exciton in two-dimensional crystals: Application to phosphorene. <i>Physical Review B</i> , 2015, 91, .	3.2	47
26	SNS junctions in nanowires with spin-orbit coupling: Role of confinement and helicity on the subgap spectrum. <i>Physical Review B</i> , 2015, 91, .	3.2	147
27	Mapping the Topological Phase Diagram of Multiband Semiconductors with Supercurrents. <i>Physical Review Letters</i> , 2014, 112, 137001.	7.8	44
28	Isolation and characterization of few-layer black phosphorus. <i>2D Materials</i> , 2014, 1, 025001.	4.4	1,411
29	Transport through quantum spin Hall insulator/metal junctions in graphene ribbons. <i>Journal of Computational Electronics</i> , 2013, 12, 63-75.	2.5	13
30	Helical networks in twisted bilayer graphene under interlayer bias. <i>Physical Review B</i> , 2013, 88, .	3.2	121
31	Quantum Hall effect in graphene with twisted bilayer stripe defects. <i>Physical Review B</i> , 2013, 87, .	3.2	21
32	Multiple Andreev reflection and critical current in topological superconducting nanowire junctions. <i>New Journal of Physics</i> , 2013, 15, 075019.	2.9	81
33	Zener tunneling isospin Hall effect in HgTe quantum wells and graphene multilayers. <i>Physical Review B</i> , 2012, 85, .	3.2	5
34	Transport spectroscopy of $N$ $S$ nanowire junctions with Majorana fermions. <i>Physical Review B</i> , 2012, 86, .	3.2	282
35	Laser-induced quantum pumping in graphene. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	48
36	ac Josephson Effect in Finite-Length Nanowire Junctions with Majorana Modes. <i>Physical Review Letters</i> , 2012, 108, 257001.	7.8	175

#	ARTICLE	IF	CITATIONS
37	Graphene prÃ©-Ã©porter. Physics Magazine, 2011, 4, .	0.1	1
38	Gate driven adiabatic quantum pumping in graphene. Solid State Communications, 2011, 151, 1065-1070.	1.9	17
39	Band topology and the quantum spin Hall effect in bilayer graphene. Solid State Communications, 2011, 151, 1075-1083.	1.9	75
40	Single-parameter pumping in graphene. Physical Review B, 2011, 84, .	3.2	67
41	Gate-controlled conductance through bilayer graphene ribbons. Physical Review B, 2011, 83, .	3.2	31
42	Zero Landau Level in Folded Graphene Nanoribbons. Physical Review Letters, 2010, 105, 106802.	7.8	59
43	Singular elastic strains and magnetoconductance of suspended graphene. Physical Review B, 2010, 81, .	3.2	33
44	Quantum pumping in graphene. Physical Review B, 2009, 80, .	3.2	113
45	Disorder-induced pseudodiffusive transport in graphene nanoribbons. Physical Review B, 2009, 79, .	3.2	11
46	Pseudospin Valve in Bilayer Graphene: Towards Graphene-Based Pseudospintronics. Physical Review Letters, 2009, 102, 247204.	7.8	143
47	Pseudodiffusive magnetotransport in graphene. Physical Review B, 2007, 75, .	3.2	55
48	Universal scaling of current fluctuations in disordered graphene. Physical Review B, 2007, 76, .	3.2	55
49	Effect of inelastic scattering on spin entanglement detection through current noise. Physical Review B, 2006, 74, .	3.2	13
50	Clauserâ€™Horne inequality for the full counting statistics. New Journal of Physics, 2005, 7, 183-183.	2.9	3
51	Divergent beams of nonlocally entangled electrons emitted from hybrid normal-superconducting structures. New Journal of Physics, 2005, 7, 231-231.	2.9	6
52	Clauser-Horne inequality and decoherence in mesoscopic conductors. Physical Review B, 2005, 72, .	3.2	8
53	Entangled electron current through finite size normal-superconductor tunneling structures. European Physical Journal B, 2004, 40, 379-396.	1.5	53