

Elsa Prada

List of Publications by Year in descending order

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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	Isolation and characterization of few-layer black phosphorus. 2D Materials, 2014, 1, 025001.	4.4	1,411
2	Transport spectroscopy of N S nanowire junctions with Majorana fermions. Physical Review B, 2012, 86, .	3.2	282
3	From Andreev to Majorana bound states in hybrid superconductor-semiconductor nanowires. Nature Reviews Physics, 2020, 2, 575-594.	26.6	251
4	Majorana bound states from exceptional points in non-topological superconductors. Scientific Reports, 2016, 6, 21427.	3.3	201
5	ac Josephson Effect in Finite-Length Nanowire Junctions with Majorana Modes. Physical Review Letters, 2012, 108, 257001.	7.8	175
6	Nonlocality of Majorana modes in hybrid nanowires. Physical Review B, 2018, 98, .	3.2	173
7	Measuring Majorana nonlocality and spin structure with a quantum dot. Physical Review B, 2017, 96, .	3.2	162
8	SNS junctions in nanowires with spin-orbit coupling: Role of confinement and helicity on the subgap spectrum. Physical Review B, 2015, 91, .	3.2	147
9	Pseudospin Valve in Bilayer Graphene: Towards Graphene-Based Pseudospintronics. Physical Review Letters, 2009, 102, 247204.	7.8	143
10	Helical networks in twisted bilayer graphene under interlayer bias. Physical Review B, 2013, 88, .	3.2	121
11	Theory of 2D crystals: graphene and beyond. Chemical Society Reviews, 2017, 46, 4387-4399.	38.1	121
12	Quantum pumping in graphene. Physical Review B, 2009, 80, .	3.2	113
13	Exciton diffusion in two-dimensional metal-halide perovskites. Nature Communications, 2020, 11, 2035.	12.8	113
14	Non-hermitian topology as a unifying framework for the Andreev versus Majorana states controversy. Communications Physics, 2019, 2, .	5.3	96
15	Multiple Andreev reflection and critical current in topological superconducting nanowire junctions. New Journal of Physics, 2013, 15, 075019.	2.9	81
16	Majorana splitting from critical currents in Josephson junctions. Physical Review B, 2017, 96, .	3.2	76
17	Band topology and the quantum spin Hall effect in bilayer graphene. Solid State Communications, 2011, 151, 1075-1083.	1.9	75
18	Nontopological zero-bias peaks in full-shell nanowires induced by flux-tunable Andreev states. Science, 2021, 373, 82-88.	12.6	69

#	ARTICLE	IF	CITATIONS
19	Single-parameter pumping in graphene. <i>Physical Review B</i> , 2011, 84, .	3.2	67
20	Zero Landau Level in Folded Graphene Nanoribbons. <i>Physical Review Letters</i> , 2010, 105, 106802.	7.8	59
21	Quantifying wave-function overlaps in inhomogeneous Majorana nanowires. <i>Physical Review B</i> , 2018, 98, .	3.2	58
22	Pseudodiffusive magnetotransport in graphene. <i>Physical Review B</i> , 2007, 75, .	3.2	55
23	Universal scaling of current fluctuations in disordered graphene. <i>Physical Review B</i> , 2007, 76, .	3.2	55
24	Entangled electron current through finite size normal-superconductor tunneling structures. <i>European Physical Journal B</i> , 2004, 40, 379-396.	1.5	53
25	Zero-energy pinning from interactions in Majorana nanowires. <i>Npj Quantum Materials</i> , 2017, 2, .	5.2	52
26	Laser-induced quantum pumping in graphene. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	48
27	Effective-mass theory for the anisotropic exciton in two-dimensional crystals: Application to phosphorene. <i>Physical Review B</i> , 2015, 91, .	3.2	47
28	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
29	Mapping the Topological Phase Diagram of Multiband Semiconductors with Supercurrents. <i>Physical Review Letters</i> , 2014, 112, 137001.	7.8	44
30	Inverse Funnel Effect of Excitons in Strained Black Phosphorus. <i>Physical Review X</i> , 2016, 6, .	8.9	34
31	Singular elastic strains and magnetoconductance of suspended graphene. <i>Physical Review B</i> , 2010, 81, .	3.2	33
32	Gate-controlled conductance through bilayer graphene ribbons. <i>Physical Review B</i> , 2011, 83, .	3.2	31
33	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
34	Strain-induced bound states in transition-metal dichalcogenide bubbles. <i>2D Materials</i> , 2019, 6, 025010.	4.4	28
35	Mirage Andreev Spectra Generated by Mesoscopic Leads in Nanowire Quantum Dots. <i>Physical Review Letters</i> , 2018, 121, 127705.	7.8	27
36	Quantum Hall effect in graphene with twisted bilayer stripe defects. <i>Physical Review B</i> , 2013, 87, .	3.2	21

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37	Strong modulation of optical properties in rippled 2D GaSe via strain engineering. Nanotechnology, 2019, 30, 24LT01.	2.6	21
38	Majorana oscillations and parity crossings in semiconductor nanowire-based transmon qubits. Physical Review Research, 2020, 2, .	3.6	19
39	Gate driven adiabatic quantum pumping in graphene. Solid State Communications, 2011, 151, 1065-1070.	1.9	17
40	Superconducting islands with topological Josephson junctions based on semiconductor nanowires. Physical Review B, 2020, 102, .	3.2	17
41	Even-odd effect and Majorana states in full-shell nanowires. Physical Review Research, 2020, 2, .	3.6	17
42	Effects of the electrostatic environment on superlattice Majorana nanowires. Physical Review B, 2019, 100, .	3.2	16
43	Effect of inelastic scattering on spin entanglement detection through current noise. Physical Review B, 2006, 74, .	3.2	13
44	Transport through quantum spin Hall insulator/metal junctions in graphene ribbons. Journal of Computational Electronics, 2013, 12, 63-75.	2.5	13
45	Tunable proximity effects and topological superconductivity in ferromagnetic hybrid nanowires. Physical Review B, 2021, 104, .	3.2	13
46	Improved effective equation for the Rashba spin-orbit coupling in semiconductor nanowires. Physical Review Research, 2020, 2, .	3.6	12
47	Disorder-induced pseudodiffusive transport in graphene nanoribbons. Physical Review B, 2009, 79, .	3.2	11
48	Clauser-Horne inequality and decoherence in mesoscopic conductors. Physical Review B, 2005, 72, .	3.2	8
49	Divergent beams of nonlocally entangled electrons emitted from hybrid normal-superconducting structures. New Journal of Physics, 2005, 7, 231-231.	2.9	6
50	Zener tunneling isospin Hall effect in HgTe quantum wells and graphene multilayers. Physical Review B, 2012, 85, .	3.2	5
51	Fluxoid-induced pairing suppression and near-zero modes in quantum dots coupled to full-shell nanowires. Physical Review B, 2022, 105, .	3.2	4
52	Clauser-Horne inequality for the full counting statistics. New Journal of Physics, 2005, 7, 183-183.	2.9	3
53	Graphene prÃt-Ã-porter. Physics Magazine, 2011, 4, .	0.1	1