

# Pablo San-Jose

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6185834/pablo-san-jose-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69  
papers

3,778  
citations

35  
h-index

61  
g-index

70  
ext. papers

4,718  
ext. citations

7.5  
avg, IF

5.74  
L-index

#	Paper	IF	Citations
69	Dynamical encoding by networks of competing neuron groups: winnerless competition. <i>Physical Review Letters</i> , <b>2001</b> , 87, 068102	7.4	276
68	Novel effects of strains in graphene and other two dimensional materials. <i>Physics Reports</i> , <b>2016</b> , 617, 1-54	27.7	239
67	Transport spectroscopy of NS nanowire junctions with Majorana fermions. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	207
66	Strong Modulation of Optical Properties in Black Phosphorus through Strain-Engineered Rippling. <i>Nano Letters</i> , <b>2016</b> , 16, 2931-7	11.5	159
65	ac Josephson effect in finite-length nanowire junctions with Majorana modes. <i>Physical Review Letters</i> , <b>2012</b> , 108, 257001	7.4	144
64	Non-Abelian gauge potentials in graphene bilayers. <i>Physical Review Letters</i> , <b>2012</b> , 108, 216802	7.4	133
63	Majorana bound states from exceptional points in non-topological superconductors. <i>Scientific Reports</i> , <b>2016</b> , 6, 21427	4.9	133
62	Pseudospin valve in bilayer graphene: towards graphene-based pseudospintronics. <i>Physical Review Letters</i> , <b>2009</b> , 102, 247204	7.4	125
61	Measuring Majorana nonlocality and spin structure with a quantum dot. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	115
60	Nonlocality of Majorana modes in hybrid nanowires. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	109
59	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
58	Quantum pumping in graphene. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	97
57	Theory of 2D crystals: graphene and beyond. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 4387-4399	58.5	91
56	Electrically Controllable Magnetism in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , <b>2017</b> , 119, 107201	7.4	86
55	Pressure-induced commensurate stacking of graphene on boron nitride. <i>Nature Communications</i> , <b>2016</b> , 7, 13168	17.4	84
54	Helical networks in twisted bilayer graphene under interlayer bias. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	82
53	Spontaneous strains and gap in graphene on boron nitride. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	74

52	Electric field control of soliton motion and stacking in trilayer graphene. <i>Nature Materials</i> , <b>2014</b> , 13, 786-797		71
51	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
50	Electron-induced rippling in graphene. <i>Physical Review Letters</i> , <b>2011</b> , 106, 045502	7.4	65
49	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
48	From Andreev to Majorana bound states in hybrid superconductor-semiconductor nanowires. <i>Nature Reviews Physics</i> , <b>2020</b> ,	23.6	60
47	Optical conductivity, Drude weight and plasmons in twisted graphene bilayers. <i>New Journal of Physics</i> , <b>2013</b> , 15, 113050	2.9	58
46	Stacking boundaries and transport in bilayer graphene. <i>Nano Letters</i> , <b>2014</b> , 14, 2052-7	11.5	55
45	Majorana Zero Modes in Graphene. <i>Physical Review X</i> , <b>2015</b> , 5,	9.1	55
44	Zero Landau level in folded graphene nanoribbons. <i>Physical Review Letters</i> , <b>2010</b> , 105, 106802	7.4	55
43	Single-parameter pumping in graphene. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	52
42	Universal scaling of current fluctuations in disordered graphene. <i>Physical Review B</i> , <b>2007</b> , 76,	3.3	51
41	Majorana splitting from critical currents in Josephson junctions. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	50
40	Resonant radiation pressure on neutral particles in a waveguide. <i>Physical Review Letters</i> , <b>2001</b> , 86, 4275-7	7.4	49
39	Geometrical spin dephasing in quantum dots. <i>Physical Review Letters</i> , <b>2006</b> , 97, 076803	7.4	48
38	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
37	Pseudodiffusive magnetotransport in graphene. <i>Physical Review B</i> , <b>2007</b> , 75,	3.3	42
36	Zero-energy pinning from interactions in Majorana nanowires. <i>Npj Quantum Materials</i> , <b>2017</b> , 2,	5	37
35	Electronic structure of spontaneously strained graphene on hexagonal boron nitride. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	37

34	Mapping the topological phase diagram of multiband semiconductors with supercurrents. <i>Physical Review Letters</i> , <b>2014</b> , 112, 137001	7.4	34
33	Diverging dc conductivity due to a flat band in a disordered system of pseudospin-1 Dirac-Weyl fermions. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	34
32	Laser-induced quantum pumping in graphene. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 153506	3.4	33
31	Singular elastic strains and magnetoconductance of suspended graphene. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	33
30	Electronic Band Structure of Transition Metal Dichalcogenides from Ab Initio and Slater-Koster Tight-Binding Model. <i>Applied Sciences (Switzerland)</i> , <b>2016</b> , 6, 284	2.6	33
29	Geometric phases in semiconductor spin qubits: Manipulations and decoherence. <i>Physical Review B</i> , <b>2008</b> , 77,	3.3	32
28	Majorana-like Zero Modes in Kekulé-Distorted Sonic Lattices. <i>Physical Review Letters</i> , <b>2019</b> , 123, 196601	7.4	30
27	Quantifying wave-function overlaps in inhomogeneous Majorana nanowires. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	30
26	Inverse Funnel Effect of Excitons in Strained Black Phosphorus. <i>Physical Review X</i> , <b>2016</b> , 6,	9.1	29
25	Magnetically-driven colossal supercurrent enhancement in InAs nanowire Josephson junctions. <i>Nature Communications</i> , <b>2017</b> , 8, 14984	17.4	25
24	Strain-induced bound states in transition-metal dichalcogenide bubbles. <i>2D Materials</i> , <b>2019</b> , 6, 025010	5.9	19
23	Mechanical Analogue of a Majorana Bound State. <i>Advanced Materials</i> , <b>2019</b> , 31, e1904386	24	19
22	Quantum Hall effect in graphene with twisted bilayer stripe defects. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	19
21	Gate driven adiabatic quantum pumping in graphene. <i>Solid State Communications</i> , <b>2011</b> , 151, 1065-1070	1.6	15
20	Mirage Andreev Spectra Generated by Mesoscopic Leads in Nanowire Quantum Dots. <i>Physical Review Letters</i> , <b>2018</b> , 121, 127705	7.4	15
19	Coherence and Coulomb blockade in single-electron devices: A unified treatment of interaction effects. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	14
18	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
17	Symmetry Breakdown in Franckeite: Spontaneous Strain, Rippling, and Interlayer Moiré. <i>Nano Letters</i> , <b>2020</b> , 20, 1141-1147	11.5	13

16	Effect of inelastic scattering on spin entanglement detection through current noise. <i>Physical Review B</i> , <b>2006</b> , 74,	3.3	13
15	Valley Hall phases in kagome lattices. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	12
14	Quantum spin Hall effect in twisted bilayer graphene. <i>2D Materials</i> , <b>2017</b> , 4, 025027	5.9	11
13	Disorder-induced pseudodiffusive transport in graphene nanoribbons. <i>Physical Review B</i> , <b>2009</b> , 79,	3.3	10
12	Granular systems in the Coulomb blockade regime. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	10
11	Flat Bands in Magic-Angle Vibrating Plates. <i>Physical Review Letters</i> , <b>2020</b> , 125, 214301	7.4	10
10	Topological Junctions from Crossed Andreev Reflection in the Quantum Hall Regime. <i>Physical Review Letters</i> , <b>2018</b> , 120, 116801	7.4	9
9	Electron backscattering from dynamical impurities in a Luttinger liquid. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	9
8	Even-odd effect and Majorana states in full-shell nanowires. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	7
7	Modulation of Kekulé atom ordering due to strain in graphene. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	6
6	Prediction of resonant all-electric spin pumping with spin-orbit coupling. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	6
5	Majorana oscillations and parity crossings in semiconductor nanowire-based transmon qubits. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	6
4	Superconducting islands with topological Josephson junctions based on semiconductor nanowires. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	5
3	Spin dephasing due to a random Berry phase. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2007</b> , 40, 76-83	3	4
2	Publisher's Note: Helical networks in twisted bilayer graphene under interlayer bias [Phys. Rev. B 88, 121408(R) (2013)]. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	3
1	Interplay between exchange interactions and charging effects in metallic grains. <i>European Physical Journal B</i> , <b>2006</b> , 54, 309-314	1.2	2