

# Pablo San-Jose

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6185834/publications.pdf>

Version: 2024-02-01

70  
papers

5,356  
citations

71102

41  
h-index

88630

70  
g-index

70  
all docs

70  
docs citations

70  
times ranked

5101  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamical Encoding by Networks of Competing Neuron Groups: Winnerless Competition. <i>Physical Review Letters</i> , 2001, 87, 068102.	7.8	330
2	Novel effects of strains in graphene and other two dimensional materials. <i>Physics Reports</i> , 2016, 617, 1-54.	25.6	315
3	Transport spectroscopy of $N$ $S$ nanowire junctions with Majorana fermions. <i>Physical Review B</i> , 2012, 86, .	3.2	282
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	Majorana bound states from exceptional points in non-topological superconductors. <i>Scientific Reports</i> , 2016, 6, 21427.	3.3	201
6	Strong Modulation of Optical Properties in Black Phosphorus through Strain-Engineered Rippling. <i>Nano Letters</i> , 2016, 16, 2931-2937.	9.1	199
7	Non-Abelian Gauge Potentials in Graphene Bilayers. <i>Physical Review Letters</i> , 2012, 108, 216802.	7.8	187
8	ac Josephson Effect in Finite-Length Nanowire Junctions with Majorana Modes. <i>Physical Review Letters</i> , 2012, 108, 257001.	7.8	175
9	Nonlocality of Majorana modes in hybrid nanowires. <i>Physical Review B</i> , 2018, 98, .	3.2	173
10	Measuring Majorana nonlocality and spin structure with a quantum dot. <i>Physical Review B</i> , 2017, 96, .	3.2	162
11	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
12	Pseudospin Valve in Bilayer Graphene: Towards Graphene-Based Pseudospintronics. <i>Physical Review Letters</i> , 2009, 102, 247204.	7.8	143
13	Pressure-induced commensurate stacking of graphene on boron nitride. <i>Nature Communications</i> , 2016, 7, 13168.	12.8	126
14	Helical networks in twisted bilayer graphene under interlayer bias. <i>Physical Review B</i> , 2013, 88, .	3.2	121
15	Theory of 2D crystals: graphene and beyond. <i>Chemical Society Reviews</i> , 2017, 46, 4387-4399.	38.1	121
16	Electrically Controllable Magnetism in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2017, 119, 107201.	7.8	114
17	Quantum pumping in graphene. <i>Physical Review B</i> , 2009, 80, .	3.2	113
18	Spontaneous strains and gap in graphene on boron nitride. <i>Physical Review B</i> , 2014, 90, .	3.2	96

#	ARTICLE	IF	CITATIONS
19	Non-hermitian topology as a unifying framework for the Andreev versus Majorana states controversy. Communications Physics, 2019, 2, .	5.3	96
20	Electric field control of soliton motion and stacking in trilayer graphene. Nature Materials, 2014, 13, 786-789.	27.5	90
21	Optical conductivity, Drude weight and plasmons in twisted graphene bilayers. New Journal of Physics, 2013, 15, 113050.	2.9	88
22	Electron-Induced Rippling in Graphene. Physical Review Letters, 2011, 106, 045502.	7.8	84
23	Multiple Andreev reflection and critical current in topological superconducting nanowire junctions. New Journal of Physics, 2013, 15, 075019.	2.9	81
24	Majorana splitting from critical currents in Josephson junctions. Physical Review B, 2017, 96, .	3.2	76
25	Band topology and the quantum spin Hall effect in bilayer graphene. Solid State Communications, 2011, 151, 1075-1083.	1.9	75
26	Majorana Zero Modes in Graphene. Physical Review X, 2015, 5, .	8.9	71
27	Nontopological zero-bias peaks in full-shell nanowires induced by flux-tunable Andreev states. Science, 2021, 373, 82-88.	12.6	69
28	Single-parameter pumping in graphene. Physical Review B, 2011, 84, .	3.2	67
29	Stacking Boundaries and Transport in Bilayer Graphene. Nano Letters, 2014, 14, 2052-2057.	9.1	66
30	Resonant Radiation Pressure on Neutral Particles in a Waveguide. Physical Review Letters, 2001, 86, 4275-4277.	7.8	62
31	Zero Landau Level in Folded Graphene Nanoribbons. Physical Review Letters, 2010, 105, 106802.	7.8	59
32	Quantifying wave-function overlaps in inhomogeneous Majorana nanowires. Physical Review B, 2018, 98, .	3.2	58
33	Diverging dc conductivity due to a flat band in a disordered system of pseudospin-1 Dirac-Weyl fermions. Physical Review B, 2013, 88, .	3.2	57
34	Electronic Band Structure of Transition Metal Dichalcogenides from Ab Initio and Slater-Koster Tight-Binding Model. Applied Sciences (Switzerland), 2016, 6, 284.	2.5	56
35	Pseudodiffusive magnetotransport in graphene. Physical Review B, 2007, 75, .	3.2	55
36	Universal scaling of current fluctuations in disordered graphene. Physical Review B, 2007, 76, .	3.2	55

#	ARTICLE	IF	CITATIONS
37	Majorana-like Zero Modes in Kekulé Distorted Sonic Lattices. <i>Physical Review Letters</i> , 2019, 123, 196601.	7.8	55
38	Geometrical Spin Dephasing in Quantum Dots. <i>Physical Review Letters</i> , 2006, 97, 076803.	7.8	54
39	Zero-energy pinning from interactions in Majorana nanowires. <i>Npj Quantum Materials</i> , 2017, 2, .	5.2	52
40	Electronic structure of spontaneously strained graphene on hexagonal boron nitride. <i>Physical Review B</i> , 2014, 90, .	3.2	49
41	Laser-induced quantum pumping in graphene. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	48
42	Mapping the Topological Phase Diagram of Multiband Semiconductors with Supercurrents. <i>Physical Review Letters</i> , 2014, 112, 137001.	7.8	44
43	Magnetically-driven colossal supercurrent enhancement in InAs nanowire Josephson junctions. <i>Nature Communications</i> , 2017, 8, 14984.	12.8	40
44	Geometric phases in semiconductor spin qubits: Manipulations and decoherence. <i>Physical Review B</i> , 2008, 77, .	3.2	36
45	Mechanical Analogue of a Majorana Bound State. <i>Advanced Materials</i> , 2019, 31, e1904386.	21.0	35
46	Inverse Funnel Effect of Excitons in Strained Black Phosphorus. <i>Physical Review X</i> , 2016, 6, .	8.9	34
47	Singular elastic strains and magnetoconductance of suspended graphene. <i>Physical Review B</i> , 2010, 81, .	3.2	33
48	Valley Hall phases in kagome lattices. <i>Physical Review B</i> , 2019, 99, .	3.2	31
49	Flat Bands in Magic-Angle Vibrating Plates. <i>Physical Review Letters</i> , 2020, 125, 214301.	7.8	31
50	Strain-induced bound states in transition-metal dichalcogenide bubbles. <i>2D Materials</i> , 2019, 6, 025010.	4.4	28
51	Mirage Andreev Spectra Generated by Mesoscopic Leads in Nanowire Quantum Dots. <i>Physical Review Letters</i> , 2018, 121, 127705.	7.8	27
52	Symmetry Breakdown in Franckeite: Spontaneous Strain, Rippling, and Interlayer Moiré. <i>Nano Letters</i> , 2020, 20, 1141-1147.	9.1	25
53	Quantum Hall effect in graphene with twisted bilayer stripe defects. <i>Physical Review B</i> , 2013, 87, .	3.2	21
54	Majorana oscillations and parity crossings in semiconductor nanowire-based transmon qubits. <i>Physical Review Research</i> , 2020, 2, .	3.6	19

#	ARTICLE	IF	CITATIONS
55	Coherence and Coulomb blockade in single-electron devices: A unified treatment of interaction effects. <i>Physical Review B</i> , 2003, 68, .	3.2	18
56	Gate driven adiabatic quantum pumping in graphene. <i>Solid State Communications</i> , 2011, 151, 1065-1070.	1.9	17
57	Superconducting islands with topological Josephson junctions based on semiconductor nanowires. <i>Physical Review B</i> , 2020, 102, .	3.2	17
58	Even-odd effect and Majorana states in full-shell nanowires. <i>Physical Review Research</i> , 2020, 2, .	3.6	17
59	Effect of inelastic scattering on spin entanglement detection through current noise. <i>Physical Review B</i> , 2006, 74, .	3.2	13
60	Quantum spin Hall effect in twisted bilayer graphene. <i>2D Materials</i> , 2017, 4, 025027.	4.4	13
61	Topological $\mathbb{Z}_2$ Anomalous Quantum Hall Junctions from Crossed Andreev Reflection in the Quantum Hall Regime. <i>Physical Review Letters</i> , 2018, 120, 116801.	7.8	12
62	Electron backscattering from dynamical impurities in a Luttinger liquid. <i>Physical Review B</i> , 2005, 72, .	3.2	11
63	Disorder-induced pseudodiffusive transport in graphene nanoribbons. <i>Physical Review B</i> , 2009, 79, .	3.2	11
64	Granular systems in the Coulomb blockade regime. <i>Physical Review B</i> , 2003, 68, .	3.2	10
65	Prediction of resonant all-electric spin pumping with spin-orbit coupling. <i>Physical Review B</i> , 2010, 82, .	3.2	10
66	Modulation of Kekulé atom ordering due to strain in graphene. <i>Physical Review B</i> , 2018, 97, .	3.2	10
67	Spin dephasing due to a random Berry phase. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 40, 76-83.	2.7	5
68	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
69	Publisher's Note: Helical networks in twisted bilayer graphene under interlayer bias [ <i>Phys. Rev. B</i> 88, 121408(R) (2013)]. <i>Physical Review B</i> , 2013, 88, .	3.2	3
70	Interplay between exchange interactions and charging effects in metallic grains. <i>European Physical Journal B</i> , 2006, 54, 309-314.	1.5	2