

Pablo San-Jose

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

5,356
citations

71102

41
h-index

88630

70
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70
all docs

70
docs citations

70
times ranked

5101
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	Nontopological zero-bias peaks in full-shell nanowires induced by flux-tunable Andreev states. <i>Science</i> , 2021, 373, 82-88.	12.6	69
3	From Andreev to Majorana bound states in hybrid superconductor-semiconductor nanowires. <i>Nature Reviews Physics</i> , 2020, 2, 575-594.	26.6	251
4	Flat Bands in Magic-Angle Vibrating Plates. <i>Physical Review Letters</i> , 2020, 125, 214301.	7.8	31
5	Superconducting islands with topological Josephson junctions based on semiconductor nanowires. <i>Physical Review B</i> , 2020, 102, .	3.2	17
6	Symmetry Breakdown in Franckeite: Spontaneous Strain, Rippling, and Interlayer Moiré. <i>Nano Letters</i> , 2020, 20, 1141-1147.	9.1	25
7	Even-odd effect and Majorana states in full-shell nanowires. <i>Physical Review Research</i> , 2020, 2, .	3.6	17
8	Majorana oscillations and parity crossings in semiconductor nanowire-based transmon qubits. <i>Physical Review Research</i> , 2020, 2, .	3.6	19
9	Mechanical Analogue of a Majorana Bound State. <i>Advanced Materials</i> , 2019, 31, e1904386.	21.0	35
10	Majorana-like Zero Modes in Kekulé Distorted Sonic Lattices. <i>Physical Review Letters</i> , 2019, 123, 196601.	7.8	55
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	Valley Hall phases in kagome lattices. <i>Physical Review B</i> , 2019, 99, .	3.2	31
13	Strain-induced bound states in transition-metal dichalcogenide bubbles. <i>2D Materials</i> , 2019, 6, 025010.	4.4	28
14	Modulation of Kekulé adatom ordering due to strain in graphene. <i>Physical Review B</i> , 2018, 97, .	3.2	10
15	Topological $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \int \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ Junctions from Crossed Andreev Reflection in the Quantum Hall Regime. <i>Physical Review Letters</i> , 2018, 120, 116801.	7.8	12
16	Quantifying wave-function overlaps in inhomogeneous Majorana nanowires. <i>Physical Review B</i> , 2018, 98, .	3.2	58
17	Mirage Andreev Spectra Generated by Mesoscopic Leads in Nanowire Quantum Dots. <i>Physical Review Letters</i> , 2018, 121, 127705.	7.8	27
18	Nonlocality of Majorana modes in hybrid nanowires. <i>Physical Review B</i> , 2018, 98, .	3.2	173

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19	Quantum spin Hall effect in twisted bilayer graphene. 2D Materials, 2017, 4, 025027.	4.4	13
20	Magnetically-driven colossal supercurrent enhancement in InAs nanowire Josephson junctions. Nature Communications, 2017, 8, 14984.	12.8	40
21	Theory of 2D crystals: graphene and beyond. Chemical Society Reviews, 2017, 46, 4387-4399.	38.1	121
22	Electrically Controllable Magnetism in Twisted Bilayer Graphene. Physical Review Letters, 2017, 119, 107201.	7.8	114
23	Measuring Majorana nonlocality and spin structure with a quantum dot. Physical Review B, 2017, 96, .	3.2	162
24	Majorana splitting from critical currents in Josephson junctions. Physical Review B, 2017, 96, .	3.2	76
25	Zero-energy pinning from interactions in Majorana nanowires. Npj Quantum Materials, 2017, 2, .	5.2	52
26	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
27	Majorana bound states from exceptional points in non-topological superconductors. Scientific Reports, 2016, 6, 21427.	3.3	201
28	Strong Modulation of Optical Properties in Black Phosphorus through Strain-Engineered Rippling. Nano Letters, 2016, 16, 2931-2937.	9.1	199
29	Inverse Funnel Effect of Excitons in Strained Black Phosphorus. Physical Review X, 2016, 6, .	8.9	34
30	Pressure-induced commensurate stacking of graphene on boron nitride. Nature Communications, 2016, 7, 13168.	12.8	126
31	Novel effects of strains in graphene and other two dimensional materials. Physics Reports, 2016, 617, 1-54.	25.6	315
32	Majorana Zero Modes in Graphene. Physical Review X, 2015, 5, .	8.9	71
33	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
34	Mapping the Topological Phase Diagram of Multiband Semiconductors with Supercurrents. Physical Review Letters, 2014, 112, 137001.	7.8	44
35	Electronic structure of spontaneously strained graphene on hexagonal boron nitride. Physical Review B, 2014, 90, .	3.2	49
36	Spontaneous strains and gap in graphene on boron nitride. Physical Review B, 2014, 90, .	3.2	96

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37	Electric field control of soliton motion and stacking in trilayer graphene. <i>Nature Materials</i> , 2014, 13, 786-789.	27.5	90
38	Stacking Boundaries and Transport in Bilayer Graphene. <i>Nano Letters</i> , 2014, 14, 2052-2057.	9.1	66
39	Helical networks in twisted bilayer graphene under interlayer bias. <i>Physical Review B</i> , 2013, 88, .	3.2	121
40	Quantum Hall effect in graphene with twisted bilayer stripe defects. <i>Physical Review B</i> , 2013, 87, .	3.2	21
41	Optical conductivity, Drude weight and plasmons in twisted graphene bilayers. <i>New Journal of Physics</i> , 2013, 15, 113050.	2.9	88
42	Multiple Andreev reflection and critical current in topological superconducting nanowire junctions. <i>New Journal of Physics</i> , 2013, 15, 075019.	2.9	81
43	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
44	Diverging dc conductivity due to a flat band in a disordered system of pseudospin-1 Dirac-Weyl fermions. <i>Physical Review B</i> , 2013, 88, .	3.2	57
45	Transport spectroscopy of N S nanowire junctions with Majorana fermions. <i>Physical Review B</i> , 2012, 86, .	3.2	282
46	Non-Abelian Gauge Potentials in Graphene Bilayers. <i>Physical Review Letters</i> , 2012, 108, 216802.	7.8	187
47	Laser-induced quantum pumping in graphene. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	48
48	ac Josephson Effect in Finite-Length Nanowire Junctions with Majorana Modes. <i>Physical Review Letters</i> , 2012, 108, 257001.	7.8	175
49	Gate driven adiabatic quantum pumping in graphene. <i>Solid State Communications</i> , 2011, 151, 1065-1070.	1.9	17
50	Band topology and the quantum spin Hall effect in bilayer graphene. <i>Solid State Communications</i> , 2011, 151, 1075-1083.	1.9	75
51	Single-parameter pumping in graphene. <i>Physical Review B</i> , 2011, 84, .	3.2	67
52	Electron-Induced Rippling in Graphene. <i>Physical Review Letters</i> , 2011, 106, 045502.	7.8	84
53	Zero Landau Level in Folded Graphene Nanoribbons. <i>Physical Review Letters</i> , 2010, 105, 106802.	7.8	59
54	Prediction of resonant all-electric spin pumping with spin-orbit coupling. <i>Physical Review B</i> , 2010, 82, .	3.2	10

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55	Singular elastic strains and magnetoconductance of suspended graphene. <i>Physical Review B</i> , 2010, 81, .	3.2	33
56	Quantum pumping in graphene. <i>Physical Review B</i> , 2009, 80, .	3.2	113
57	Disorder-induced pseudodiffusive transport in graphene nanoribbons. <i>Physical Review B</i> , 2009, 79, .	3.2	11
58	Pseudospin Valve in Bilayer Graphene: Towards Graphene-Based Pseudospintronics. <i>Physical Review Letters</i> , 2009, 102, 247204.	7.8	143
59	Geometric phases in semiconductor spin qubits: Manipulations and decoherence. <i>Physical Review B</i> , 2008, 77, .	3.2	36
60	Pseudodiffusive magnetotransport in graphene. <i>Physical Review B</i> , 2007, 75, .	3.2	55
61	Universal scaling of current fluctuations in disordered graphene. <i>Physical Review B</i> , 2007, 76, .	3.2	55
62	Spin dephasing due to a random Berry phase. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 40, 76-83.	2.7	5
63	Geometrical Spin Dephasing in Quantum Dots. <i>Physical Review Letters</i> , 2006, 97, 076803.	7.8	54
64	Interplay between exchange interactions and charging effects in metallic grains. <i>European Physical Journal B</i> , 2006, 54, 309-314.	1.5	2
65	Effect of inelastic scattering on spin entanglement detection through current noise. <i>Physical Review B</i> , 2006, 74, .	3.2	13
66	Electron backscattering from dynamical impurities in a Luttinger liquid. <i>Physical Review B</i> , 2005, 72, .	3.2	11
67	Granular systems in the Coulomb blockade regime. <i>Physical Review B</i> , 2003, 68, .	3.2	10
68	Coherence and Coulomb blockade in single-electron devices: A unified treatment of interaction effects. <i>Physical Review B</i> , 2003, 68, .	3.2	18
69	Dynamical Encoding by Networks of Competing Neuron Groups: Winnerless Competition. <i>Physical Review Letters</i> , 2001, 87, 068102.	7.8	330
70	Resonant Radiation Pressure on Neutral Particles in a Waveguide. <i>Physical Review Letters</i> , 2001, 86, 4275-4277.	7.8	62