

Pablo San-Jose

List of Publications by Year in Descending Order

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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 | Nontopological zero-bias peaks in full-shell nanowires induced by flux-tunable Andreev states. <i>Science</i> , 2021 , 373, 82-88 | 33.3 | 14 |
| 68 | Superconducting islands with topological Josephson junctions based on semiconductor nanowires. <i>Physical Review B</i> , 2020 , 102, | 3.3 | 5 |
| 67 | Symmetry Breakdown in Franckeite: Spontaneous Strain, Rippling, and Interlayer Moiré. <i>Nano Letters</i> , 2020 , 20, 1141-1147 | 11.5 | 13 |
| 66 | Even-odd effect and Majorana states in full-shell nanowires. <i>Physical Review Research</i> , 2020 , 2, | 3.9 | 7 |
| 65 | Majorana oscillations and parity crossings in semiconductor nanowire-based transmon qubits. <i>Physical Review Research</i> , 2020 , 2, | 3.9 | 6 |
| 64 | From Andreev to Majorana bound states in hybrid superconductor-semiconductor nanowires. <i>Nature Reviews Physics</i> , 2020 , | 23.6 | 60 |
| 63 | Flat Bands in Magic-Angle Vibrating Plates. <i>Physical Review Letters</i> , 2020 , 125, 214301 | 7.4 | 10 |
| 62 | Non-hermitian topology as a unifying framework for the Andreev versus Majorana states controversy. <i>Communications Physics</i> , 2019 , 2, | 5.4 | 45 |
| 61 | Valley Hall phases in kagome lattices. <i>Physical Review B</i> , 2019 , 99, | 3.3 | 12 |
| 60 | Strain-induced bound states in transition-metal dichalcogenide bubbles. <i>2D Materials</i> , 2019 , 6, 025010 | 5.9 | 19 |
| 59 | Mechanical Analogue of a Majorana Bound State. <i>Advanced Materials</i> , 2019 , 31, e1904386 | 24 | 19 |
| 58 | Majorana-like Zero Modes in Kekulé-Distorted Sonic Lattices. <i>Physical Review Letters</i> , 2019 , 123, 196601 | 7.4 | 30 |
| 57 | Modulation of Kekulé-atom ordering due to strain in graphene. <i>Physical Review B</i> , 2018 , 97, | 3.3 | 6 |
| 56 | Topological Junctions from Crossed Andreev Reflection in the Quantum Hall Regime. <i>Physical Review Letters</i> , 2018 , 120, 116801 | 7.4 | 9 |
| 55 | Nonlocality of Majorana modes in hybrid nanowires. <i>Physical Review B</i> , 2018 , 98, | 3.3 | 109 |
| 54 | Quantifying wave-function overlaps in inhomogeneous Majorana nanowires. <i>Physical Review B</i> , 2018 , 98, | 3.3 | 30 |
| 53 | Mirage Andreev Spectra Generated by Mesoscopic Leads in Nanowire Quantum Dots. <i>Physical Review Letters</i> , 2018 , 121, 127705 | 7.4 | 15 |

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| 52 | Quantum spin Hall effect in twisted bilayer graphene. <i>2D Materials</i> , 2017 , 4, 025027 | 5.9 | 11 |
| 51 | Magnetically-driven colossal supercurrent enhancement in InAs nanowire Josephson junctions. <i>Nature Communications</i> , 2017 , 8, 14984 | 17.4 | 25 |
| 50 | Theory of 2D crystals: graphene and beyond. <i>Chemical Society Reviews</i> , 2017 , 46, 4387-4399 | 58.5 | 91 |
| 49 | Electrically Controllable Magnetism in Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2017 , 119, 107201 | 7.4 | 86 |
| 48 | Measuring Majorana nonlocality and spin structure with a quantum dot. <i>Physical Review B</i> , 2017 , 96, | 3.3 | 115 |
| 47 | Majorana splitting from critical currents in Josephson junctions. <i>Physical Review B</i> , 2017 , 96, | 3.3 | 50 |
| 46 | Zero-energy pinning from interactions in Majorana nanowires. <i>Npj Quantum Materials</i> , 2017 , 2, | 5 | 37 |
| 45 | Pressure-induced commensurate stacking of graphene on boron nitride. <i>Nature Communications</i> , 2016 , 7, 13168 | 17.4 | 84 |
| 44 | Novel effects of strains in graphene and other two dimensional materials. <i>Physics Reports</i> , 2016 , 617, 1-54 | 27.7 | 239 |
| 43 | Electronic Band Structure of Transition Metal Dichalcogenides from Ab Initio and Slater-Koster Tight-Binding Model. <i>Applied Sciences (Switzerland)</i> , 2016 , 6, 284 | 2.6 | 33 |
| 42 | Majorana bound states from exceptional points in non-topological superconductors. <i>Scientific Reports</i> , 2016 , 6, 21427 | 4.9 | 133 |
| 41 | Strong Modulation of Optical Properties in Black Phosphorus through Strain-Engineered Rippling. <i>Nano Letters</i> , 2016 , 16, 2931-7 | 11.5 | 159 |
| 40 | Inverse Funnel Effect of Excitons in Strained Black Phosphorus. <i>Physical Review X</i> , 2016 , 6, | 9.1 | 29 |
| 39 | SNS junctions in nanowires with spin-orbit coupling: Role of confinement and helicity on the subgap spectrum. <i>Physical Review B</i> , 2015 , 91, | 3.3 | 100 |
| 38 | Majorana Zero Modes in Graphene. <i>Physical Review X</i> , 2015 , 5, | 9.1 | 55 |
| 37 | Spontaneous strains and gap in graphene on boron nitride. <i>Physical Review B</i> , 2014 , 90, | 3.3 | 74 |
| 36 | Electric field control of soliton motion and stacking in trilayer graphene. <i>Nature Materials</i> , 2014 , 13, 786-97 | 9.7 | 71 |
| 35 | Stacking boundaries and transport in bilayer graphene. <i>Nano Letters</i> , 2014 , 14, 2052-7 | 11.5 | 55 |

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| 34 | Mapping the topological phase diagram of multiband semiconductors with supercurrents. <i>Physical Review Letters</i> , 2014 , 112, 137001 | 7.4 | 34 |
| 33 | Electronic structure of spontaneously strained graphene on hexagonal boron nitride. <i>Physical Review B</i> , 2014 , 90, | 3.3 | 37 |
| 32 | Helical networks in twisted bilayer graphene under interlayer bias. <i>Physical Review B</i> , 2013 , 88, | 3.3 | 82 |
| 31 | Quantum Hall effect in graphene with twisted bilayer stripe defects. <i>Physical Review B</i> , 2013 , 87, | 3.3 | 19 |
| 30 | Optical conductivity, Drude weight and plasmons in twisted graphene bilayers. <i>New Journal of Physics</i> , 2013 , 15, 113050 | 2.9 | 58 |
| 29 | Multiple Andreev reflection and critical current in topological superconducting nanowire junctions. <i>New Journal of Physics</i> , 2013 , 15, 075019 | 2.9 | 62 |
| 28 | Publisher's Note: Helical networks in twisted bilayer graphene under interlayer bias [Phys. Rev. B 88 , 121408(R) (2013)]. <i>Physical Review B</i> , 2013 , 88, | 3.3 | 3 |
| 27 | 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, | 3.3 | 34 |
| 26 | Non-Abelian gauge potentials in graphene bilayers. <i>Physical Review Letters</i> , 2012 , 108, 216802 | 7.4 | 133 |
| 25 | Laser-induced quantum pumping in graphene. <i>Applied Physics Letters</i> , 2012 , 101, 153506 | 3.4 | 33 |
| 24 | ac Josephson effect in finite-length nanowire junctions with Majorana modes. <i>Physical Review Letters</i> , 2012 , 108, 257001 | 7.4 | 144 |
| 23 | Transport spectroscopy of NS nanowire junctions with Majorana fermions. <i>Physical Review B</i> , 2012 , 86, | 3.3 | 207 |
| 22 | Gate driven adiabatic quantum pumping in graphene. <i>Solid State Communications</i> , 2011 , 151, 1065-1070 | 1.6 | 15 |
| 21 | Band topology and the quantum spin Hall effect in bilayer graphene. <i>Solid State Communications</i> , 2011 , 151, 1075-1083 | 1.6 | 68 |
| 20 | Single-parameter pumping in graphene. <i>Physical Review B</i> , 2011 , 84, | 3.3 | 52 |
| 19 | Electron-induced rippling in graphene. <i>Physical Review Letters</i> , 2011 , 106, 045502 | 7.4 | 65 |
| 18 | Zero Landau level in folded graphene nanoribbons. <i>Physical Review Letters</i> , 2010 , 105, 106802 | 7.4 | 55 |
| 17 | Prediction of resonant all-electric spin pumping with spin-orbit coupling. <i>Physical Review B</i> , 2010 , 82, | 3.3 | 6 |

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| 16 | Singular elastic strains and magnetoconductance of suspended graphene. <i>Physical Review B</i> , 2010 , 81, | 3-3 | 33 |
| 15 | Quantum pumping in graphene. <i>Physical Review B</i> , 2009 , 80, | 3-3 | 97 |
| 14 | Disorder-induced pseudodiffusive transport in graphene nanoribbons. <i>Physical Review B</i> , 2009 , 79, | 3-3 | 10 |
| 13 | Pseudospin valve in bilayer graphene: towards graphene-based pseudospintronics. <i>Physical Review Letters</i> , 2009 , 102, 247204 | 7-4 | 125 |
| 12 | Geometric phases in semiconductor spin qubits: Manipulations and decoherence. <i>Physical Review B</i> , 2008 , 77, | 3-3 | 32 |
| 11 | Spin dephasing due to a random Berry phase. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007 , 40, 76-83 | 3 | 4 |
| 10 | Pseudodiffusive magnetotransport in graphene. <i>Physical Review B</i> , 2007 , 75, | 3-3 | 42 |
| 9 | Universal scaling of current fluctuations in disordered graphene. <i>Physical Review B</i> , 2007 , 76, | 3-3 | 51 |
| 8 | Effect of inelastic scattering on spin entanglement detection through current noise. <i>Physical Review B</i> , 2006 , 74, | 3-3 | 13 |
| 7 | Geometrical spin dephasing in quantum dots. <i>Physical Review Letters</i> , 2006 , 97, 076803 | 7-4 | 48 |
| 6 | Interplay between exchange interactions and charging effects in metallic grains. <i>European Physical Journal B</i> , 2006 , 54, 309-314 | 1-2 | 2 |
| 5 | Electron backscattering from dynamical impurities in a Luttinger liquid. <i>Physical Review B</i> , 2005 , 72, | 3-3 | 9 |
| 4 | Granular systems in the Coulomb blockade regime. <i>Physical Review B</i> , 2003 , 68, | 3-3 | 10 |
| 3 | Coherence and Coulomb blockade in single-electron devices: A unified treatment of interaction effects. <i>Physical Review B</i> , 2003 , 68, | 3-3 | 14 |
| 2 | Resonant radiation pressure on neutral particles in a waveguide. <i>Physical Review Letters</i> , 2001 , 86, 4275-7.4 | 7-4 | 49 |
| 1 | Dynamical encoding by networks of competing neuron groups: winnerless competition. <i>Physical Review Letters</i> , 2001 , 87, 068102 | 7-4 | 276 |