M Pilar LÃ³pez-Sancho

List of Publications by Year
in descending order

79 papers	4,114 citations	430754 18 h-index	110317 64 g-index
80 all docs	80 docs citations	80 times ranked	3976 citing authors

#	Article	IF	Citations
1	Effects of vertical electric field and charged impurities on the spin-polarized transport of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math>-antimonene armchair nanoribbons. Physical Review B, 2021, 103, .	1.1	7
2	Topologically protected edge and confined states in finite armchair graphene nanoribbons and their junctions. Physical Review B, 2021, 104, .	1.1	5
3	Robust band of critical states in time-reversal symmetry-broken fermionic systems with lattice selective disorder. Physical Review Research, 2019, 1, .	1.3	0
4	Enhanced spin-flip scattering by surface roughness in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> nanoribbons. Physical Review B, 2017, 95, .	1.1	11
5	Absence of localization in a class of topological systems. Physical Review B, 2016, 93, .	1.1	9
6	Magnetic phases in periodically rippled graphene. Physical Review B, 2016, 94, .	1.1	8
7	Anderson localization and topological transition in Chern insulators. Physical Review B, 2015, 92, .	1.1	29
8	Momentum dependence of spinâ€“orbit interaction effects in single-layer and multi-layer transition metal dichalcogenides. 2D Materials, 2014, 1, 034003.	2.0	85
9	Electronic properties of singleâ€layer and multilayer transition metal dichalcogenides MX₂ (M = Mo, W and X = S, Se). Annalen Der Physik, 2014, 526, 347-357.	0.9	186
10	Interplay between symmetry and spin-orbit coupling on graphene nanoribbons. Physical Review B, 2013, 87, .	1.1	11
11	La ComisiÃ³n de Mujeres y Ciencia del CSIC: diez aÃ±os promoviendo la igualdad de oportunidades y la excelencia en el organismo. Arbor, 2013, 189, a012.	0.1	1
12	Vacancy induced zero energy modes in graphene stacks: The case of ABC trilayer. Solid State Communications, 2012, 152, 1483-1488.	0.9	8
13	Intrinsic spinâ€“orbit interaction in carbon nanotubes and curved nanoribbons. Solid State Communications, 2012, 152, 1477-1482.	0.9	7
14	Effect of pressure on the magnetism of bilayer graphene. Physical Review B, 2011, 84, .	1.1	14
15	Progress in Modeling Graphene: The Novel Features of this Material. Advanced Materials, 2011, 23, 5324-5326.	11.1	3
16	Intrinsic spin-orbit interactions in flat and curved graphene nanoribbons. Physical Review B, 2011, 83, .	1.1	26
17	Shuffle dislocation induced magnetic moment in graphene. Journal of Magnetism and Magnetic Materials, 2010, 322, 1167-1169.	1.0	2
18	New Type of Vacancy-Induced Localized States in Multilayer Graphene. Physical Review Letters, 2010, 104, 036802.	2.9	46

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19	Curvature-induced anisotropic spin-orbit splitting in carbon nanotubes. Physical Review B, 2009, 79, .	1.1	60
20	Pinning and switching of magnetic moments in bilayer graphene. New Journal of Physics, 2009, 11, 095017.	1.2	18
21	Renormalization group approach to anisotropic superconductivity. Physical Review B, 2009, 79, .	1.1	1
22	Magnetic moments in the presence of topological defects in graphene. Physical Review B, 2009, 79, .	1.1	107
23	Effect of electron-electron interaction on the Fermi surface topology of doped graphene. Physical Review B, 2008, 77, .	1.1	44
24	Transverse transport in graphite. European Physical Journal: Special Topics, 2007, 148, 73-81.	1.2	5
25	Deformation of anisotropic Fermi surfaces due to electron-electron interactions. Europhysics Letters, 2006, 76, 1165-1171.	0.7	2
26	Unexpected magnetism in low dimensional systems: the role of symmetry. Journal of Physics: Conference Series, 2006, 30, 215-223.	0.3	0
27	Many body effects on c-axis properties: Out of plane coherence and bilayer splitting. Journal of Physics and Chemistry of Solids, 2006, 67, 27-31.	1.9	0
28	Interactions, disorder and local defects in graphite. Journal of Physics and Chemistry of Solids, 2006, 67, 562-566.	1.9	8
29	Self-energy corrections to anisotropic Fermi surfaces. Physical Review B, 2006, 74, .	1.1	9
30	Quantum confinement in carbon-nanotube systems. International Journal of Nanotechnology, 2005, 2, 103.	0.1	7
31	Local defects and ferromagnetism in graphene layers. Physical Review B, 2005, 72, .	1.1	299
32	Spin Splitting Induced by Spin-Orbit Interaction in Chiral Nanotubes. Physical Review Letters, 2004, 93, 176402.	2.9	68
33	Dielectric function of diluted magnetic semiconductors in the infrared regime. Physical Review B, 2004, 70, .	1.1	6
34	Temperature dependence of the conductance in diluted magnetic semiconductors. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1585-E1586.	1.0	3
35	Electromodulation of the magnetoresistance in diluted magnetic semiconductors based heterostructures. Solid State Communications, 2003, 125, 31-35.	0.9	5
36	Temperature dependence of the dielectric constant and resistivity of diluted magnetic semiconductors. Physical Review B, 2003, 68, .	1.1	29

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37	Interlayer hopping properties of electrons in layered metals. Physical Review B, 2003, 68, .	1.1	10
38	Confinement of Electrons in Layered Metals. Physical Review Letters, 2002, 89, 166401.	2.9	18
39	Finite-size versus periodic effects in Ni/Co multilayers. Physical Review B, 2002, 65, .	1.1	5
40	Partially filled stripes in the two-dimensional Hubbard model:â€,â€Statics and dynamics. Physical Review B, 2001, 64, .	1.1	4
41	Dynamics of holes and universality class of the antiferromagnetic transition in the two-dimensional Hubbard model. Solid State Communications, 2000, 113, 593-597.	0.9	6
42	Electron confinement and localization in (111) Ni/Co superlattices. Physical Review B, 1999, 59, 1232-1241.	1.1	6
43	Configuration-interaction approach to hole pairing in the two-dimensional Hubbard model. Physical Review B, 1999, 59, 14005-14016.	1.1	19
44	Dynamical correlation-hole approach to the Hubbard model. Physical Review B, 1999, 59, 5384-5397.	1.1	1
45	Long-lived core-hole excited states and high-energy thresholds in stimulated desorption processes: Cl/Si(100)-(2 Ã— 1). Applied Surface Science, 1998, 123-124, 61-65.	3.1	1
46	Carbon-Nanotube-Based Quantum Dot. Physical Review Letters, 1998, 81, 1278-1281.	2.9	164
47	Hole pairs in the two-dimensional Hubbard model. Europhysics Letters, 1998, 44, 229-234.	0.7	7
48	Tubular Fermi surfaces in transition metal superlattices. Europhysics Letters, 1997, 40, 679-684.	0.7	3
49	CORRELATION EFFECTS IN PHOTOEMISSION SPECTROSCOPY: Cl/Si(100)-(2 Ã— 1). Surface Review and Letters, 1997, 04, 923-927.	0.5	1
50	Many-body study of ionic states in adsorption systems: Clî—¸Si(100)-(2 Ã— 1). Surface Science, 1997, 372, L279-L284.	0.8	2
51	Electron-Hole Shake-Up in Adsorption Systems: Halogens on Semiconductor Surfaces. Journal of the Physical Society of Japan, 1997, 66, 1109-1114.	0.7	1
52	Metallic character of the K/Si(100)-(2Ã—1) interface at saturation coverage: A Mott-Hubbard model calculation of its near-Fermi-level band structure. Physical Review B, 1996, 53, 4791-4795.	1.1	10
53	Title is missing!. Journal of Physics Condensed Matter, 1995, 7, L695-L700.	0.7	0
54	Charge and spin fluctuations in planar and non-planar orbitals of cuprate superconductors. Journal of Physics Condensed Matter, 1994, 6, L29-L34.	0.7	1

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55	Nonplanar orbital effects on charge and spin fluctuations in doped cuprate superconductors. Physical Review B, 1994, 49, 9125-9137.	1.1	3
56	Local alkali-metal-promoted oxidation of Si(100)-(2Ã—1) surfaces: A generalized-Hubbard-model calculation. Physical Review B, 1994, 49, 2629-2636.	1.1	8
57	Spin correlations in semiconductor dangling bonds: Implications for the alkali-metal-covered surfaces. Physical Review B, 1994, 49, 4623-4634.	1.1	4
58	Extended Hubbard model analysis of semiconductor-alkali interfaces: implications for the metallization problem. Surface Science, 1993, 285, L491-L497.	0.8	1
59	Doping dependence of the density of states forCuO2clusters in the Hubbard model. Physical Review B, 1992, 46, 11110-11116.	1.1	13
60	Electron correlation effects on adsorption geometries. Surface Science, 1991, 251-252, 947-950.	0.8	1
61	New insights on metallization of semiconductor-alkali interfaces. Physica Scripta, 1991, 43, 216-220.	1.2	3
62	Electronic-structure calculations of the Cr/GaAs(001) interface. Physical Review B, 1990, 41, 8412-8419.	1.1	16
63	Configuration-lattice approach to electron spectroscopies: Application to inverse photoemission. Physical Review B, 1990, 41, 7856-7859.	1.1	4
64	Many-body effects in electron spectroscopies from absorbates. Surface Science, 1989, 211-212, 896-903.	0.8	3
65	The dynamic form factor of a one-level adsorbate: Cluster-Bethe lattice approach in configuration space. Surface Science, 1988, 199, 297-308.	0.8	7
66	Correlation effects in photoemission from adsorbates: Hydrogen on narrow-band metals. Physical Review B, 1988, 38, 3142-3147.	1.1	11
67	Many-body effects in the interpretation of the electron energy loss spectrum for an adsorbate. Physica Scripta, 1988, 38, 878-884.	1.2	0
68	Coverage Dependence of the Neutralization Rate of an Ionized Adsorbate. Physica Scripta, 1987, 35, 696-698.	1.2	2
69	Coulomb bound states and ion neutralization in ESD. Surface Science Letters, 1986, 173, L590-L596.	0.1	0
70	A nonorthogonal-basis calculation of the spectral density of surface states for the (100) and (110) faces of tungsten. Journal of Physics C: Solid State Physics, 1985, 18, 1803-1815.	1.5	21
71	Interpretation of the electron-energy-loss spectrum for hydrogen-covered transition-metal surfaces in terms of a configuration-interaction approach. Physical Review B, 1985, 31, 4143-4145.	1.1	4
72	Highly convergent schemes for the calculation of bulk and surface Green functions. Journal of Physics F: Metal Physics, 1985, 15, 851-858.	1.6	1,584

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73	Density of states of the clean Mo (110) surface. Solid State Communications, 1984, 50, 629-632.	0.9	12
74	Quick iterative scheme for the calculation of transfer matrices: application to Mo (100). Journal of Physics F: Metal Physics, 1984, 14, 1205-1215.	1.6	990
75	Resonant contributions to the cross section for electron stimulated desorption of neutral particles from adsorbates. Journal of Vacuum Science and Technology, 1982, 20, 217-218.	1.9	13
76	Interactions between co-adsorbed CH4 and CO on tungsten: ESD and flash desorption study. Vacuum, 1982, 32, 277-281.	1.6	1
77	A simple model for the lowest excited states of : application to electron stimulated desorption. Vacuum, 1982, 32, 719-722.	1.6	1
78	ESD study of the interaction of oxygen with tungsten containing carbon. Applications of Surface Science, 1980, 6, 82-86.	1.0	2
79	Interaction of methane with polycrystalline tungsten. Surface Science, 1978, 77, L167-L172.	0.8	3