

M Pilar LÃ³pez-Sancho

List of Publications by Year in descending order

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79
papers

4,114
citations

430874

18
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110387

64
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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 armchair nanoribbons. Physical Review B, 2021, 103, .	3.2	7
2	Topologically protected edge and confined states in finite armchair graphene nanoribbons and their junctions. Physical Review B, 2021, 104, .	3.2	5
3	Robust band of critical states in time-reversal symmetry-broken fermionic systems with lattice selective disorder. Physical Review Research, 2019, 1, .	3.6	0
4	Enhanced spin-flip scattering by surface roughness in WS ₂ /MoS ₂ nanoribbons. Physical Review B, 2017, 95, .		11
5	Absence of localization in a class of topological systems. Physical Review B, 2016, 93, .	3.2	9
6	Magnetic phases in periodically rippled graphene. Physical Review B, 2016, 94, .	3.2	8
7	Anderson localization and topological transition in Chern insulators. Physical Review B, 2015, 92, .	3.2	29
8	Momentum dependence of spin-orbit interaction effects in single-layer and multi-layer transition metal dichalcogenides. 2D Materials, 2014, 1, 034003.	4.4	85
9	Electronic properties of single-layer and multilayer transition metal dichalcogenides (MX ₂) (M = Mo, W and X = S, Se). Annalen Der Physik, 2014, 526, 347-357.	2.4	186
10	Interplay between symmetry and spin-orbit coupling on graphene nanoribbons. Physical Review B, 2013, 87, .	3.2	11
11	La Comisi3n de Mujeres y Ciencia del CSIC: diez a3os promoviendo la igualdad de oportunidades y la excelencia en el organismo. Arbor, 2013, 189, a012.	0.3	1
12	Vacancy induced zero energy modes in graphene stacks: The case of ABC trilayer. Solid State Communications, 2012, 152, 1483-1488.	1.9	8
13	Intrinsic spin-orbit interaction in carbon nanotubes and curved nanoribbons. Solid State Communications, 2012, 152, 1477-1482.	1.9	7
14	Effect of pressure on the magnetism of bilayer graphene. Physical Review B, 2011, 84, .	3.2	14
15	Progress in Modeling Graphene: The Novel Features of this Material. Advanced Materials, 2011, 23, 5324-5326.	21.0	3
16	Intrinsic spin-orbit interactions in flat and curved graphene nanoribbons. Physical Review B, 2011, 83, .	3.2	26
17	Shuffle dislocation induced magnetic moment in graphene. Journal of Magnetism and Magnetic Materials, 2010, 322, 1167-1169.	2.3	2
18	New Type of Vacancy-Induced Localized States in Multilayer Graphene. Physical Review Letters, 2010, 104, 036802.	7.8	46

#	ARTICLE	IF	CITATIONS
19	Curvature-induced anisotropic spin-orbit splitting in carbon nanotubes. <i>Physical Review B</i> , 2009, 79, .	3.2	60
20	Pinning and switching of magnetic moments in bilayer graphene. <i>New Journal of Physics</i> , 2009, 11, 095017.	2.9	18
21	Renormalization group approach to anisotropic superconductivity. <i>Physical Review B</i> , 2009, 79, .	3.2	1
22	Magnetic moments in the presence of topological defects in graphene. <i>Physical Review B</i> , 2009, 79, .	3.2	107
23	Effect of electron-electron interaction on the Fermi surface topology of doped graphene. <i>Physical Review B</i> , 2008, 77, .	3.2	44
24	Transverse transport in graphite. <i>European Physical Journal: Special Topics</i> , 2007, 148, 73-81.	2.6	5
25	Deformation of anisotropic Fermi surfaces due to electron-electron interactions. <i>Europhysics Letters</i> , 2006, 76, 1165-1171.	2.0	2
26	Unexpected magnetism in low dimensional systems: the role of symmetry. <i>Journal of Physics: Conference Series</i> , 2006, 30, 215-223.	0.4	0
27	Many body effects on c-axis properties: Out of plane coherence and bilayer splitting. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 27-31.	4.0	0
28	Interactions, disorder and local defects in graphite. <i>Journal of Physics and Chemistry of Solids</i> , 2006, 67, 562-566.	4.0	8
29	Self-energy corrections to anisotropic Fermi surfaces. <i>Physical Review B</i> , 2006, 74, .	3.2	9
30	Quantum confinement in carbon-nanotube systems. <i>International Journal of Nanotechnology</i> , 2005, 2, 103.	0.2	7
31	Local defects and ferromagnetism in graphene layers. <i>Physical Review B</i> , 2005, 72, .	3.2	299
32	Spin Splitting Induced by Spin-Orbit Interaction in Chiral Nanotubes. <i>Physical Review Letters</i> , 2004, 93, 176402.	7.8	68
33	Dielectric function of diluted magnetic semiconductors in the infrared regime. <i>Physical Review B</i> , 2004, 70, .	3.2	6
34	Temperature dependence of the conductance in diluted magnetic semiconductors. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, E1585-E1586.	2.3	3
35	Electromodulation of the magnetoresistance in diluted magnetic semiconductors based heterostructures. <i>Solid State Communications</i> , 2003, 125, 31-35.	1.9	5
36	Temperature dependence of the dielectric constant and resistivity of diluted magnetic semiconductors. <i>Physical Review B</i> , 2003, 68, .	3.2	29

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37	Interlayer hopping properties of electrons in layered metals. Physical Review B, 2003, 68, .	3.2	10
38	Confinement of Electrons in Layered Metals. Physical Review Letters, 2002, 89, 166401.	7.8	18
39	Finite-size versus periodic effects in Ni/Co multilayers. Physical Review B, 2002, 65, .	3.2	5
40	Partially filled stripes in the two-dimensional Hubbard model: Statics and dynamics. Physical Review B, 2001, 64, .	3.2	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.	1.9	6
42	Electron confinement and localization in (111) Ni/Co superlattices. Physical Review B, 1999, 59, 1232-1241.	3.2	6
43	Configuration-interaction approach to hole pairing in the two-dimensional Hubbard model. Physical Review B, 1999, 59, 14005-14016.	3.2	19
44	Dynamical correlation-hole approach to the Hubbard model. Physical Review B, 1999, 59, 5384-5397.	3.2	1
45	Long-lived core-hole excited states and high-energy thresholds in stimulated desorption processes: Cl/Si(100)-(2 Å ⁻¹). Applied Surface Science, 1998, 123-124, 61-65.	6.1	1
46	Carbon-Nanotube-Based Quantum Dot. Physical Review Letters, 1998, 81, 1278-1281.	7.8	164
47	Hole pairs in the two-dimensional Hubbard model. Europhysics Letters, 1998, 44, 229-234.	2.0	7
48	Tubular Fermi surfaces in transition metal superlattices. Europhysics Letters, 1997, 40, 679-684.	2.0	3
49	CORRELATION EFFECTS IN PHOTOEMISSION SPECTROSCOPY: Cl/Si(100)-(2 Å ⁻¹). Surface Review and Letters, 1997, 04, 923-927.	1.1	1
50	Many-body study of ionic states in adsorption systems: Cl ⁻ /Si(100)-(2 Å ⁻¹). Surface Science, 1997, 372, L279-L284.	1.9	2
51	Electron-Hole Shake-Up in Adsorption Systems: Halogens on Semiconductor Surfaces. Journal of the Physical Society of Japan, 1997, 66, 1109-1114.	1.6	1
52	Metallic character of the K/Si(100)-(2 Å ⁻¹) interface at saturation coverage: A Mott-Hubbard model calculation of its near-Fermi-level band structure. Physical Review B, 1996, 53, 4791-4795.	3.2	10
53	Title is missing!. Journal of Physics Condensed Matter, 1995, 7, L695-L700.	1.8	0
54	Charge and spin fluctuations in planar and non-planar orbitals of cuprate superconductors. Journal of Physics Condensed Matter, 1994, 6, L29-L34.	1.8	1

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55	Nonplanar orbital effects on charge and spin fluctuations in doped cuprate superconductors. <i>Physical Review B</i> , 1994, 49, 9125-9137.	3.2	3
56	Local alkali-metal-promoted oxidation of Si(100)-(2Å-1) surfaces: A generalized-Hubbard-model calculation. <i>Physical Review B</i> , 1994, 49, 2629-2636.	3.2	8
57	Spin correlations in semiconductor dangling bonds: Implications for the alkali-metal-covered surfaces. <i>Physical Review B</i> , 1994, 49, 4623-4634.	3.2	4
58	Extended Hubbard model analysis of semiconductor-alkali interfaces: implications for the metallization problem. <i>Surface Science</i> , 1993, 285, L491-L497.	1.9	1
59	Doping dependence of the density of states for CuO ₂ clusters in the Hubbard model. <i>Physical Review B</i> , 1992, 46, 11110-11116.	3.2	13
60	Electron correlation effects on adsorption geometries. <i>Surface Science</i> , 1991, 251-252, 947-950.	1.9	1
61	New insights on metallization of semiconductor-alkali interfaces. <i>Physica Scripta</i> , 1991, 43, 216-220.	2.5	3
62	Electronic-structure calculations of the Cr/GaAs(001) interface. <i>Physical Review B</i> , 1990, 41, 8412-8419.	3.2	16
63	Configuration-lattice approach to electron spectroscopies: Application to inverse photoemission. <i>Physical Review B</i> , 1990, 41, 7856-7859.	3.2	4
64	Many-body effects in electron spectroscopies from adsorbates. <i>Surface Science</i> , 1989, 211-212, 896-903.	1.9	3
65	The dynamic form factor of a one-level adsorbate: Cluster-Bethe lattice approach in configuration space. <i>Surface Science</i> , 1988, 199, 297-308.	1.9	7
66	Correlation effects in photoemission from adsorbates: Hydrogen on narrow-band metals. <i>Physical Review B</i> , 1988, 38, 3142-3147.	3.2	11
67	Many-body effects in the interpretation of the electron energy loss spectrum for an adsorbate. <i>Physica Scripta</i> , 1988, 38, 878-884.	2.5	0
68	Coverage Dependence of the Neutralization Rate of an Ionized Adsorbate. <i>Physica Scripta</i> , 1987, 35, 696-698.	2.5	2
69	Coulomb bound states and ion neutralization in ESD. <i>Surface Science Letters</i> , 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. <i>Journal of Physics C: Solid State Physics</i> , 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. <i>Physical Review B</i> , 1985, 31, 4143-4145.	3.2	4
72	Highly convergent schemes for the calculation of bulk and surface Green functions. <i>Journal of Physics F: Metal Physics</i> , 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.	1.9	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 CH ₄ and CO on tungsten: ESD and flash desorption study. Vacuum, 1982, 32, 277-281.	3.5	1
77	A simple model for the lowest excited states of : application to electron stimulated desorption. Vacuum, 1982, 32, 719-722.	3.5	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.	1.9	3