

Arantzazu Mascaraque

List of Publications by Year in descending order

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63
papers

1,661
citations

331259

21
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288905

40
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64
all docs

64
docs citations

64
times ranked

2057
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Bi-doped electrodeposited Cu nanowires for spintronics applications. Journal of Magnetism and Magnetic Materials, 2022, 545, 168645.	1.0	2
2	In-plane Néel wall chirality and orientation of interfacial Dzyaloshinskii-Moriya vector in magnetic films. Physical Review B, 2020, 102, .	1.1	6
3	Large Dzyaloshinskii-Moriya interaction induced by chemisorbed oxygen on a ferromagnet surface. Science Advances, 2020, 6, eaba4924.	4.7	60
4	Helical surface magnetization in nanowires: the role of chirality. Nanoscale, 2020, 12, 17880-17885.	2.8	12
5	Memory effect and magnetocrystalline anisotropy impact on the surface magnetic domains of magnetite(001). Scientific Reports, 2018, 8, 5991.	1.6	7
6	Geometrically defined spin structures in ultrathin Fe ₃ O ₄ with bulk like magnetic properties. Nanoscale, 2018, 10, 5566-5573.	2.8	21
7	Observation of a topologically protected state in a magnetic domain wall stabilized by a ferromagnetic chemical barrier. Scientific Reports, 2018, 8, 16695.	1.6	35
8	Highly Bi-doped Cu thin films with large spin-mixing conductance. APL Materials, 2018, 6, .	2.2	5
9	Tailoring the magnetization states in 2D arrays of multiresponse ferromagnetic nanomagnets. Journal Physics D: Applied Physics, 2017, 50, 485003.	1.3	1
10	Antiferromagnetic FeMn alloys electrodeposited from chloride-based electrolytes. Physical Chemistry Chemical Physics, 2016, 18, 8212-8218.	1.3	12
11	Spin reorientation transition of magnetite (001). Physical Review B, 2016, 93, .	1.1	12
12	Mössbauer and Magnetic Properties of Coherently Mixed Magnetite-Cobalt Ferrite Grown by Infrared Pulsed-Laser Deposition. Croatica Chemica Acta, 2015, 88, 453-460.	0.1	12
13	Formation of titanium monoxide (001) single-crystalline thin film induced by ion bombardment of titanium dioxide (110). Nature Communications, 2015, 6, 6147.	5.8	44
14	Room temperature skyrmion ground state stabilized through interlayer exchange coupling. Applied Physics Letters, 2015, 106, .	1.5	195
15	Tuning the magnetic properties of FeCo by pulsed DC magnetron sputtering. CrystEngComm, 2014, 16, 9528-9533.	1.3	4
16	Long-Range Order in an Organic Overlayer Induced by Surface Reconstruction: Coronene on Ge(111). Journal of Physical Chemistry C, 2014, 118, 11699-11703.	1.5	6
17	Surface defects and their influence on surface properties. Journal of Physics Condensed Matter, 2013, 25, 484008.	0.7	10
18	Competing charge ordering and Mott phases in a correlated Sn/Ge(111) two-dimensional triangular lattice. Physical Review B, 2013, 88, .	1.1	23

#	ARTICLE	IF	CITATIONS
19	Juan Rojo: the surface science and science politics maker in Spain. Journal of Physics Condensed Matter, 2013, 25, 480302.	0.7	0
20	From surfaces to magnetic properties: special section dedicated to Juan Rojo. Journal of Physics Condensed Matter, 2013, 25, 480301.	0.7	2
21	The dimensionality reduction at surfaces as a playground for many-body and correlation effects. Journal of Physics Condensed Matter, 2013, 25, 090301.	0.7	1
22	Electronic structure of reconstructed Au(100): Two-dimensional and one-dimensional surface states. Physical Review B, 2012, 86, .	1.1	23
23	Hydrogen-induced reversible spin-reorientation transition and magnetic stripe domain phase in bilayer Co on Ru(0001). Physical Review B, 2012, 85, .	1.1	14
24	Ge(001) As a Template for Long-Range Assembly of π -Stacked Coronene Rows. Langmuir, 2012, 28, 3840-3844.	1.6	16
25	Oxidation Pathways in Bicomponent Ultrathin Iron Oxide Films. Journal of Physical Chemistry C, 2012, 116, 11539-11547.	1.5	44
26	Magnetism in nanometer-thick magnetite. Physical Review B, 2012, 85, .	1.1	71
27	Electron correlation and many-body effects at interfaces on semiconducting substrates. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 614-626.	0.8	16
28	Epitaxial growth of Bi ultra-thin films on GaAs by electrodeposition. Materials Chemistry and Physics, 2012, 134, 523-530.	2.0	7
29	Valence band circular dichroism in non-magnetic Ag/Ru(0001) at normal emission. Journal of Physics Condensed Matter, 2011, 23, 305006.	0.7	4
30	Effect of photoelectron mean free path on the photoemission cross-section of Cu(111) and Ag(111) Shockley states. Physical Review B, 2011, 84, .	1.1	14
31	Measuring the magnetization of three monolayer thick Co islands and films by x-ray dichroism. Physical Review B, 2009, 80, .	1.1	4
32	Structure and magnetism in ultrathin iron oxides characterized by low energy electron microscopy. Journal of Physics Condensed Matter, 2009, 21, 314011.	0.7	29
33	Plastic properties of gold surfaces nanopatterned by ion beam sputtering. Journal of Physics Condensed Matter, 2009, 21, 224023.	0.7	7
34	Structural Origin of the Sn ₄ d Core Level Line Shape in Sn ₄ Ge ₁₁₁		

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37	Coexistence of Racemic and Homochiral Two-Dimensional Lattices Formed by a Prochiral Molecule: Dicarboxystilbene on Cu(110). <i>Nano Letters</i> , 2008, 8, 4162-4167.	4.5	34
38	The Fermi surface of Sn/Ge(111) and Pb/Ge(111). <i>Journal of Physics Condensed Matter</i> , 2007, 19, 355008.	0.7	11
39	Observation of the noble-metal L-gap surface state in Cu(311). <i>Journal of Physics Condensed Matter</i> , 2006, 18, L395-L400.	0.7	3
40	Observation of a Mott Insulating Ground State for Sn/Ge(111) at Low Temperature. <i>Physical Review Letters</i> , 2006, 96, 126103.	2.9	67
41	Fermi-surface analysis of a quasi-two-dimensional monophosphate tungsten bronze. <i>Physical Review B</i> , 2004, 69, .	1.1	5
42	One-dimensional versus two-dimensional surface states on stepped Au(111). <i>Physical Review B</i> , 2002, 65, .	1.1	56
43	NEXAFS experiment and multiple scattering calculations on KO ₂ : Effects on the $\tilde{\epsilon}$ resonance in the solid phase. <i>Physical Review B</i> , 2002, 66, .	1.1	12
44	Lateral quantum wells at vicinal Au(111) studied with angle-resolved photoemission. <i>Physical Review B</i> , 2002, 66, .	1.1	78
45	Electronic structure analysis of quasi-one-dimensional monophosphate tungsten bronzes. <i>Physical Review B</i> , 2002, 66, .	1.1	8
46	Reversible structural phase transitions in semiconductor and metal/semiconductor surfaces. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 6005-6035.	0.7	22
47	Probing wave functions at step superlattices: confined versus propagating electrons. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002, 96, 154-158.	1.7	3
48	Electron Confinement in Surface States on a Stepped Gold Surface Revealed by Angle-Resolved Photoemission. <i>Physical Review Letters</i> , 2001, 87, 107601.	2.9	115
49	Probing unoccupied bulk bands via the cross section of quantum well states in thin films. <i>Surface Science</i> , 2001, 482-485, 464-469.	0.8	6
50	Electronic structure and reactivity of the Co/MoS ₂ (0 0 0 1) interface. <i>Surface Science</i> , 2001, 482-485, 664-668.	0.8	3
51	NEXAFS multiple scattering calculations of KO ₂ . <i>Journal of Synchrotron Radiation</i> , 2001, 8, 719-721.	1.0	1
52	Electron Wave Function at a Vicinal Surface: Switch from Terrace to Step Modulation. <i>Physical Review Letters</i> , 2000, 84, 6110-6113.	2.9	72
53	Periodicity and thickness effects in the cross section of quantum well states. <i>Physical Review B</i> , 2000, 62, 12672-12675.	1.1	21
54	Symmetry breaking and atomic displacements in the $3\sqrt{3}\times\sqrt{3}$ surface phase of Pb/Ge(111). <i>Surface Science</i> , 2000, 454-456, 191-195.	0.8	1

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55	Dynamical Fluctuations as the Origin of a Surface Phase Transition in Sn/Ge(111). Physical Review Letters, 1999, 82, 442-445.	2.9	173
56	Nature of the Low-Temperature $\sqrt{3}\times\sqrt{3}$ Surface Phase of Pb/Ge(111). Physical Review Letters, 1999, 82, 2524-2527.	2.9	47
57	Spin-polarized quantum well states. Journal of Electron Spectroscopy and Related Phenomena, 1999, 101-103, 367-370.	0.8	6
58	Short wavelength, spin-polarized quantum-well states in high quality Cu films on FCC-Co(100). Journal of Magnetism and Magnetic Materials, 1999, 203, 126-128.	1.0	9
59	Electronic band structure of Ge(111)($\sqrt{3}\times\sqrt{3}$)-Pb. Surface Science, 1999, 433-435, 337-341.	0.8	6
60	Electronic instabilities of the two-dimensional Sn/Ge(111) $\sqrt{2}\times\sqrt{2}$ -phase. Surface Science, 1999, 433-435, 327-331.	0.8	16
61	Fermi surface and electronic structure of Pb/Ge(111). Physical Review B, 1998, 57, 14758-14765.	1.1	36
62	Atomic structure of the reactive Fe/Si(111) $\sqrt{7}\times\sqrt{7}$ interface. Physical Review B, 1997, 55, R7315-R7318.	1.1	40
63	Origin of the surface metallization in single-domain K/Si(100) 2×1 . Physical Review B, 1996, 54, R14277-R14280.	1.1	10