

# Arantzazu Mascaraque

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

1,661  
citations

331259

21  
h-index

288905

40  
g-index

64  
all docs

64  
docs citations

64  
times ranked

2057  
citing authors

#	ARTICLE	IF	CITATIONS
1	Room temperature skyrmion ground state stabilized through interlayer exchange coupling. Applied Physics Letters, 2015, 106, .	1.5	195
2	Dynamical Fluctuations as the Origin of a Surface Phase Transition in Sn/Ge(111). Physical Review Letters, 1999, 82, 442-445.	2.9	173
3	Electron Confinement in Surface States on a Stepped Gold Surface Revealed by Angle-Resolved Photoemission. Physical Review Letters, 2001, 87, 107601.	2.9	115
4	Lateral quantum wells at vicinal Au(111) studied with angle-resolved photoemission. Physical Review B, 2002, 66, .	1.1	78
5	Electron Wave Function at a Vicinal Surface: Switch from Terrace to Step Modulation. Physical Review Letters, 2000, 84, 6110-6113.	2.9	72
6	Magnetism in nanometer-thick magnetite. Physical Review B, 2012, 85, .	1.1	71
7	Observation of a Mott Insulating Ground State for Sn/Ge(111) at Low Temperature. Physical Review Letters, 2006, 96, 126103.	2.9	67
8	Large Dzyaloshinskii-Moriya interaction induced by chemisorbed oxygen on a ferromagnet surface. Science Advances, 2020, 6, eaba4924.	4.7	60
9	One-dimensional versus two-dimensional surface states on stepped Au(111). Physical Review B, 2002, 65, .	1.1	56
10	Uncommon Dislocation Processes at the Incipient Plasticity of Stepped Gold Surfaces. Physical Review Letters, 2008, 100, 105504.	2.9	49
11	Nature of the Low-Temperature $3\sqrt{3}\times 3\sqrt{3}$ Surface Phase of Pb/Ge(111). Physical Review Letters, 1999, 82, 2524-2527.	2.9	47
12	Oxidation Pathways in Bicomponent Ultrathin Iron Oxide Films. Journal of Physical Chemistry C, 2012, 116, 11539-11547.	1.5	44
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	Atomic structure of the reactive Fe/Si(111) $\sqrt{7}\times\sqrt{7}$ interface. Physical Review B, 1997, 55, R7315-R7318.	1.1	40
15	Fermi surface and electronic structure of Pb/Ge(111). Physical Review B, 1998, 57, 14758-14765.	1.1	36
16	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
17	Coexistence of Racemic and Homochiral Two-Dimensional Lattices Formed by a Prochiral Molecule: Dicarboxystilbene on Cu(110). Nano Letters, 2008, 8, 4162-4167.	4.5	34
18	Structure and magnetism in ultrathin iron oxides characterized by low energy electron microscopy. Journal of Physics Condensed Matter, 2009, 21, 314011.	0.7	29

#	ARTICLE	IF	CITATIONS
19	<p>al Origin of the Sn <math display="inline">\frac{4}{d}</math> Core Level Line Shape in <math display="inline">\text{Sn} \langle \text{Ge} \rangle</math> stretchy="false"&gt;(&lt;/&gt; 111 &lt;/&gt; &lt;/&gt; mathvariant="normal"&gt;â&lt;/&gt;</p>		

#	ARTICLE	IF	CITATIONS
37	Surface defects and their influence on surface properties. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 484008.	0.7	10
38	Short wavelength, spin-polarized quantum-well states in high quality Cu films on FCC-Co(100). <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 203, 126-128.	1.0	9
39	Electronic structure analysis of quasi-one-dimensional monophosphate tungsten bronzes. <i>Physical Review B</i> , 2002, 66, .	1.1	8
40	Reduced hardness at the onset of plasticity in nanoindented titanium dioxide. <i>Physical Review B</i> , 2008, 78, .	1.1	8
41	Plastic properties of gold surfaces nanopatterned by ion beam sputtering. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 224023.	0.7	7
42	Epitaxial growth of Bi ultra-thin films on GaAs by electrodeposition. <i>Materials Chemistry and Physics</i> , 2012, 134, 523-530.	2.0	7
43	Memory effect and magnetocrystalline anisotropy impact on the surface magnetic domains of magnetite(001). <i>Scientific Reports</i> , 2018, 8, 5991.	1.6	7
44	Spin-polarized quantum well states. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1999, 101-103, 367-370.	0.8	6
45	Electronic band structure of Ge(111)(3Å–3)-Pb. <i>Surface Science</i> , 1999, 433-435, 337-341.	0.8	6
46	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
47	Long-Range Order in an Organic Overlayer Induced by Surface Reconstruction: Coronene on Ge(111). <i>Journal of Physical Chemistry C</i> , 2014, 118, 11699-11703.	1.5	6
48	In-plane Néel wall chirality and orientation of interfacial Dzyaloshinskii-Moriya vector in magnetic films. <i>Physical Review B</i> , 2020, 102, .	1.1	6
49	Fermi-surface analysis of a quasi-two-dimensional monophosphate tungsten bronze. <i>Physical Review B</i> , 2004, 69, .	1.1	5
50	Highly Bi-doped Cu thin films with large spin-mixing conductance. <i>APL Materials</i> , 2018, 6, .	2.2	5
51	Measuring the magnetization of three monolayer thick Co islands and films by x-ray dichroism. <i>Physical Review B</i> , 2009, 80, .	1.1	4
52	Valence band circular dichroism in non-magnetic Ag/Ru(0001) at normal emission. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 305006.	0.7	4
53	Tuning the magnetic properties of FeCo by pulsed DC magnetron sputtering. <i>CrystEngComm</i> , 2014, 16, 9528-9533.	1.3	4
54	Electronic structure and reactivity of the Co/MoS <sub>2</sub> (0 0 0 1) interface. <i>Surface Science</i> , 2001, 482-485, 664-668.	0.8	3

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55	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
56	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
57	From surfaces to magnetic properties: special section dedicated to Juan Rojo. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 480301.	0.7	2
58	Highly Bi-doped electrodeposited Cu nanowires for spintronics applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2022, 545, 168645.	1.0	2
59	Symmetry breaking and atomic displacements in the $3\text{\AA}$ -3 surface phase of Pb/Ge(111). <i>Surface Science</i> , 2000, 454-456, 191-195.	0.8	1
60	NEXAFS multiple scattering calculations of KO <sub>2</sub> . <i>Journal of Synchrotron Radiation</i> , 2001, 8, 719-721.	1.0	1
61	The dimensionality reduction at surfaces as a playground for many-body and correlation effects. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 090301.	0.7	1
62	Tailoring the magnetization states in 2D arrays of multiresponse ferromagnetic nanomagnets. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 485003.	1.3	1
63	Juan Rojo: the surface science and science politics maker in Spain. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 480302.	0.7	0