

Miguel Angel NiÃ±o

List of Publications by Year in descending order

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84
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#	ARTICLE	IF	CITATIONS
1	The cobalt oxidation state in preferential CO oxidation on CoO _x /Pt(111) investigated by <i>operando</i> X-ray photoemission spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2022, , .	2.8	7
2	Interaction of chiral <i>l</i> -dialanine with Cu(100). <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 8022-8031.	2.8	1
3	Domain Wall Automotion in Three-Dimensional Magnetic Helical Interconnectors. <i>ACS Nano</i> , 2022, 16, 8860-8868.	14.6	20
4	Noncollinear Magnetic Order in Two-Dimensional NiBr ₂ Films Grown on Au(111). <i>ACS Nano</i> , 2021, 15, 14985-14995.	14.6	20
5	Stable antiferromagnetic nanocrystals for room temperature applications: the case of iron nitride. <i>Journal of Materials Chemistry C</i> , 2019, 7, 9474-9480.	5.5	1
6	Photoinduced effects on the magnetic properties of the (Fe _{0.2} Cr _{0.8}) _{1.5} [Cr(CN) ₆] Prussian blue analogue. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2305-2317.	5.5	6
7	The Selective Species in Ethylene Epoxidation on Silver. <i>ACS Catalysis</i> , 2018, 8, 3844-3852.	11.2	62
8	Reactivity of a FeS Surface under Room Temperature Exposure to Nitrogen and H ₂ S. <i>Journal of Physical Chemistry B</i> , 2018, 122, 705-712.	2.6	5
9	Enantiopure Supramolecular Motifs of Self-Assembled Diamine-Based Chiral Molecules on Cu(100). <i>Journal of Physical Chemistry C</i> , 2018, 122, 24129-24136.	3.1	1
10	LEED- <i>I</i> (<i>V</i>) Structure Analysis of the (7 Å ³) _{rect} SO ₄ Phase on Ag(111): Precursor to the Active Species of the Ag-Catalyzed Ethylene Epoxidation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26998-27004.	3.1	14
11	Combinatorial optimization of evaporated bilayer small molecule organic solar cells through orthogonal thickness gradients. <i>Organic Electronics</i> , 2018, 59, 288-292.	2.6	8
12	Enantiosensitive Bonding of Chiral Molecules on a Magnetic Substrate Investigated by Means of Electron Spectroscopies. <i>Chimia</i> , 2018, 72, 418.	0.6	3
13	Unraveling Dzyaloshinskii–Moriya Interaction and Chiral Nature of Graphene/Cobalt Interface. <i>Nano Letters</i> , 2018, 18, 5364-5372.	9.1	60
14	Magnetic ordering in an (Fe _{0.2} Cr _{0.8}) _{1.5} [Cr(CN) ₆] Prussian blue analogue studied with synchrotron radiation based spectroscopies. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8171-8186.	5.5	7
15	Franckeite as a naturally occurring van der Waals heterostructure. <i>Nature Communications</i> , 2017, 8, 14409.	12.8	103
16	Characterization of highly crystalline lead iodide nanosheets prepared by room-temperature solution processing. <i>Nanotechnology</i> , 2017, 28, 455703.	2.6	45
17	Emergence of the Stoner-Wohlfarth astroid in thin films at dynamic regime. <i>Scientific Reports</i> , 2017, 7, 13474.	3.3	11
18	Two-dimensional chiral asymmetry in unidirectional magnetic anisotropy structures. <i>AIP Advances</i> , 2016, 6, 055819.	1.3	2

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19	Mazes and meso-islands: Impact of Ag preadsorption on Ge growth on Si(111). <i>Physical Review B</i> , 2016, 94, .	3.2	1
20	Centimeter-Scale Synthesis of Ultrathin Layered MoO ₃ by van der Waals Epitaxy. <i>Chemistry of Materials</i> , 2016, 28, 4042-4051.	6.7	100
21	Vacancy-mediated fcc/bcc phase separation in $\text{Fe}_{1-x}\text{Ni}_x$ films. <i>Physical Review B</i> , 2016, 94, .	3.2	9
22	Interfacial exchange-coupling induced chiral symmetry breaking of spin-orbit effects. <i>Physical Review B</i> , 2015, 92, .	3.2	9
23	Phase Coexistence in Two-Dimensional Fe ₀ /Ni ₀ Films on W(110). <i>E-Journal of Surface Science and Nanotechnology</i> , 2015, 13, 256-260.	0.4	3
24	Direct experimental determination of the anisotropic magnetoresistive effects. <i>Applied Physics Letters</i> , 2014, 104, 202407.	3.3	12
25	Enantiospecific Spin Polarization of Electrons Photoemitted Through Layers of Homochiral Organic Molecules. <i>Advanced Materials</i> , 2014, 26, 7474-7479.	21.0	28
26	Spatially Resolved, Site-Dependent Charge Transfer and Induced Magnetic Moment in TCNQ Adsorbed on Graphene. <i>Chemistry of Materials</i> , 2014, 26, 2883-2890.	6.7	42
27	Growth, reaction and nanowire formation of Fe on the ZnS(110) surface. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 315006.	1.8	2
28	Vectorial Kerr magnetometer for simultaneous and quantitative measurements of the in-plane magnetization components. <i>Review of Scientific Instruments</i> , 2014, 85, 053904.	1.3	32
29	Desorption kinetics from a surface derived from direct imaging of the adsorbate layer. <i>Nature Communications</i> , 2014, 5, 3853.	12.8	14
30	Fe ₃ S ₄ (greigite) formation by vapor-solid reaction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 1903-1913.	10.3	19
31	The competition for graphene formation on Re(0001): A complex interplay between carbon segregation, dissolution and carburisation. <i>Carbon</i> , 2014, 73, 389-402.	10.3	23
32	The effect of magnetic anisotropy on the spin configurations of patterned La _{0.7} Sr _{0.3} MnO ₃ elements. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 176004.	1.8	5
33	Full field electron spectromicroscopy applied to ferroelectric materials. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	43
34	Inelastic mean free path from reflectivity of slow electrons. <i>Physical Review B</i> , 2013, 87, .	3.2	24
35	Locating Catalytically Active Oxygen on Ag(111) A Spectromicroscopy Study. <i>ChemCatChem</i> , 2013, 5, 3342-3350.	3.7	16
36	Growth of magnetic nanowires on self-organized stripe templates: Fe on PdO/W(110). <i>Ultramicroscopy</i> , 2013, 130, 82-86.	1.9	3

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37	Chemical Waves and Rate Oscillations in the $H_2 + O_2$ Reaction on a Bimetallic Rh(111)/Ni Catalyt. Journal of Physical Chemistry C, 2012, 116, 4083-4090.	3.1	16
38	Oxidation Pathways in Bicomponent Ultrathin Iron Oxide Films. Journal of Physical Chemistry C, 2012, 116, 11539-11547.	3.1	44
39	Morphology and thermal stability of AlF ₃ thin films grown on Cu(100). Surface Science, 2012, 606, 573-579.	1.9	10
40	Control of the magnetization in pre-patterned half-metallic La _{0.7} Sr _{0.3} MnO ₃ nanostructures. Journal of Applied Physics, 2012, 112, 103921.	2.5	7
41	Magnetism in nanometer-thick magnetite. Physical Review B, 2012, 85, .	3.2	71
42	Element-specific characterization of heterogeneous magnetism in (Ga,Fe)N films. Physical Review B, 2012, 85, .	3.2	13
43	In situ growth of epitaxial cerium tungstate (100) thin films. Physical Chemistry Chemical Physics, 2011, 13, 7083.	2.8	19
44	Direct observation of step-edge barrier effects and general aspects of growth processes: morphology and structure in diindenoperylene thin films deposited on Au(100) single crystals. CrystEngComm, 2011, 13, 4139.	2.6	14
45	Thermal Stability of Corrugated Epitaxial Graphene Grown on Re(0001). Physical Review Letters, 2011, 106, 216101.	7.8	106
46	Self-Organization of Ultrathin Vanadium Oxide Layers on a Rh(111) Surface during a Catalytic Reaction. Part II: A LEEM and Spectromicroscopy Study. Journal of Physical Chemistry C, 2011, 115, 19149-19157.	3.1	26
47	Control of spin configuration in half-metallic La _{0.7} Sr _{0.3} MnO ₃ nano-structures. Applied Physics Letters, 2011, 99, 062508.	3.3	23
48	Morphology and composition of Au catalysts on Ge(111) obtained by thermal dewetting. Physical Review B, 2011, 84, .	3.2	27
49	Making angle-resolved photoemission measurements on corrugated monolayer crystals: Suspended exfoliated single-crystal graphene. Physical Review B, 2011, 84, .	3.2	47
50	Image blur and energy broadening effects in XPEEM. Ultramicroscopy, 2011, 111, 1447-1454.	1.9	59
51	Composition uniformity of site-controlled InAs/GaAs quantum dots. Journal of Crystal Growth, 2011, 323, 176-179.	1.5	7
52	Stress engineering at the nanometer scale: Two-component adlayer stripes. Europhysics Letters, 2011, 94, 38003.	2.0	6
53	Surface antiferromagnetic domain imaging using low-energy unpolarized electrons. Physical Review B, 2011, 84, .	3.2	25
54	Magnetization textures in NiPd nanostructures. Physical Review B, 2011, 84, .	3.2	12

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55	Spectromicroscopy with Low-Energy Electrons: LEEM and XPEEM Studies at the Nanoscale. E-Journal of Surface Science and Nanotechnology, 2011, 9, 72-79.	0.4	14
56	Surface Patterning of Silver using an Electron- or Photon-Assisted Oxidation Reaction. ChemPhysChem, 2010, 11, 1525-1532.	2.1	5
57	Domain wall velocity measurement in permalloy nanowires with X-ray magnetic circular dichroism imaging and single shot Kerr microscopy. Journal of Magnetism and Magnetic Materials, 2010, 322, 1347-1352.	2.3	10
58	Magnetic-field-induced domain-wall motion in permalloy nanowires with modified Gilbert damping. Physical Review B, 2010, 82, .	3.2	26
59	Domain faceting in an in-plane magnetic reorientation transition. Physical Review B, 2010, 82, .	3.2	10
60	Domain-Wall Depinning Assisted by Pure Spin Currents. Physical Review Letters, 2010, 105, 076601.	7.8	44
61	Extrinsic screening of ferroelectric domains in Pb(Zr _{0.48} Ti _{0.52})O ₃ . Applied Physics Letters, 2010, 97, .	3.3	38
62	Temperature dependence of surface stress across an order-disorder transition: p(1 $\sqrt{2}$)O/W(110). Physical Review B, 2010, 81, .	3.2	8
63	Oxidation of Supported PtRh Particles: Size and Morphology Effects. Journal of Physical Chemistry C, 2010, 114, 16885-16891.	3.1	7
64	Corrugation in Exfoliated Graphene: An Electron Microscopy and Diffraction Study. ACS Nano, 2010, 4, 4879-4889.	14.6	78
65	Ge Growth on Partially and Entirely Ag Covered Si(111). E-Journal of Surface Science and Nanotechnology, 2010, 8, 221-226.	0.4	4
66	Scaling of spin relaxation and angular momentum dissipation in permalloy nanowires. Physical Review B, 2009, 80, .	3.2	26
67	Kinetics of the evolution of InAs/GaAs quantum dots to quantum rings: A combined x-ray, atomic force microscopy, and photoluminescence study. Physical Review B, 2009, 80, .	3.2	17
68	Synchrotron-based photoelectron microscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 601, 195-202.	1.6	36
69	Silver: a novel growth catalyst for Ge nanoislands on Si(113). Physica Status Solidi - Rapid Research Letters, 2009, 3, 305-307.	2.4	3
70	Magnetization and structure of ultrathin Fe films. Physical Review B, 2009, 80, .	3.2	16
71	A LEEM/ $\sqrt{4}$ -LEED investigation of phase transformations in TiOx/Pt(111) ultrathin films. Physical Chemistry Chemical Physics, 2009, 11, 3727.	2.8	18
72	Spectromicroscopy for Addressing the Surface and Electron Transport Properties of Individual 1-D Nanostructures and Their Networks. ACS Nano, 2008, 2, 1993-2000.	14.6	86

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73	Spectromicroscopy of single and multilayer graphene supported by a weakly interacting substrate. Physical Review B, 2008, 78, .	3.2	105
74	Surfactant-assisted epitaxial growth and magnetism of Fe films on Cu(111). Journal of Physics Condensed Matter, 2008, 20, 265008.	1.8	8
75	Chemical patterning of Ag(111): Spatially confined oxide formation induced by electron beam irradiation. Applied Physics Letters, 2008, 93, 233117.	3.3	7
76	Strain relaxation in small adsorbate islands: O on W(110). Physical Review B, 2008, 77, .	3.2	16
77	Experimental investigation of the spin reorientation of Co/Au based magnetic nanodot arrays. Physical Review B, 2008, 77, .	3.2	9
78	Relationship between Nonadiabaticity and Damping in Permalloy Studied by Current Induced Spin Structure Transformations. Physical Review Letters, 2008, 100, 066603.	7.8	78
79	Generation of Ultrashort Coherent Vacuum Ultraviolet Pulses Using Electron Storage Rings: A New Bright Light Source for Experiments. Physical Review Letters, 2008, 101, 053902.	7.8	55
80	Self-Organized Hexagonal Patterns of Independent Magnetic Nanodots. Advanced Materials, 2007, 19, 4375-4380.	21.0	32
81	Imaging of magnetic nanodots on self-organized semiconductor substrates. Physical Review B, 2005, 71, .	3.2	11
82	Growth of Co and Fe on Cu(111): experiment and BFS based calculations. Applied Surface Science, 2003, 219, 80-87.	6.1	4
83	Surfactant control of growth and interface quality in granular magnetic $\{\text{CoCu}\}/\text{Cu}(111)$ superlattices. Surface Science, 2001, 482-485, 1077-1082.	1.9	2
84	Epitaxial growth of metals with high Ehrlich-Schwoebel barriers and the effect of surfactants. Applied Physics A: Materials Science and Processing, 1999, 69, 553-557.	2.3	25