

Miguel Angel NiÃ±o

List of Publications by Year in descending order

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84
papers

2,086
citations

218677

26
h-index

254184

43
g-index

84
all docs

84
docs citations

84
times ranked

3584
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal Stability of Corrugated Epitaxial Graphene Grown on Re(0001). <i>Physical Review Letters</i> , 2011, 106, 216101.	7.8	106
2	Spectromicroscopy of single and multilayer graphene supported by a weakly interacting substrate. <i>Physical Review B</i> , 2008, 78, .	3.2	105
3	Franckeite as a naturally occurring van der Waals heterostructure. <i>Nature Communications</i> , 2017, 8, 14409.	12.8	103
4	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
5	Spectromicroscopy for Addressing the Surface and Electron Transport Properties of Individual 1-D Nanostructures and Their Networks. <i>ACS Nano</i> , 2008, 2, 1993-2000.	14.6	86
6	Relationship between Nonadiabaticity and Damping in Permalloy Studied by Current Induced Spin Structure Transformations. <i>Physical Review Letters</i> , 2008, 100, 066603.	7.8	78
7	Corrugation in Exfoliated Graphene: An Electron Microscopy and Diffraction Study. <i>ACS Nano</i> , 2010, 4, 4879-4889.	14.6	78
8	Magnetism in nanometer-thick magnetite. <i>Physical Review B</i> , 2012, 85, .	3.2	71
9	The Selective Species in Ethylene Epoxidation on Silver. <i>ACS Catalysis</i> , 2018, 8, 3844-3852.	11.2	62
10	Unraveling Dzyaloshinskiiâ€Moriya Interaction and Chiral Nature of Graphene/Cobalt Interface. <i>Nano Letters</i> , 2018, 18, 5364-5372.	9.1	60
11	Image blur and energy broadening effects in XPEEM. <i>Ultramicroscopy</i> , 2011, 111, 1447-1454.	1.9	59
12	Generation of Ultrashort Coherent Vacuum Ultraviolet Pulses Using Electron Storage Rings: A New Bright Light Source for Experiments. <i>Physical Review Letters</i> , 2008, 101, 053902.	7.8	55
13	Making angle-resolved photoemission measurements on corrugated monolayer crystals: Suspended exfoliated single-crystal graphene. <i>Physical Review B</i> , 2011, 84, .	3.2	47
14	Characterization of highly crystalline lead iodide nanosheets prepared by room-temperature solution processing. <i>Nanotechnology</i> , 2017, 28, 455703.	2.6	45
15	Domain-Wall Depinning Assisted by Pure Spin Currents. <i>Physical Review Letters</i> , 2010, 105, 076601.	7.8	44
16	Oxidation Pathways in Bicomponent Ultrathin Iron Oxide Films. <i>Journal of Physical Chemistry C</i> , 2012, 116, 11539-11547.	3.1	44
17	Full field electron spectromicroscopy applied to ferroelectric materials. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	43
18	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

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19	Extrinsic screening of ferroelectric domains in Pb(Zr _{0.48} Ti _{0.52})O ₃ . Applied Physics Letters, 2010, 97, .	3.3	38
20	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
21	Self-Organized Hexagonal Patterns of Independent Magnetic Nanodots. Advanced Materials, 2007, 19, 4375-4380.	21.0	32
22	Vectorial Kerr magnetometer for simultaneous and quantitative measurements of the in-plane magnetization components. Review of Scientific Instruments, 2014, 85, 053904.	1.3	32
23	Enantiospecific Spin Polarization of Electrons Photoemitted Through Layers of Homochiral Organic Molecules. Advanced Materials, 2014, 26, 7474-7479.	21.0	28
24	Morphology and composition of Au catalysts on Ge(111) obtained by thermal dewetting. Physical Review B, 2011, 84, .	3.2	27
25	Scaling of spin relaxation and angular momentum dissipation in permalloy nanowires. Physical Review B, 2009, 80, .	3.2	26
26	Magnetic-field-induced domain-wall motion in permalloy nanowires with modified Gilbert damping. Physical Review B, 2010, 82, .	3.2	26
27	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
28	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
29	Surface antiferromagnetic domain imaging using low-energy unpolarized electrons. Physical Review B, 2011, 84, .	3.2	25
30	Inelastic mean free path from reflectivity of slow electrons. Physical Review B, 2013, 87, .	3.2	24
31	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
32	The competition for graphene formation on Re(0001): A complex interplay between carbon segregation, dissolution and carburisation. Carbon, 2014, 73, 389-402.	10.3	23
33	Noncollinear Magnetic Order in Two-Dimensional NiBr ₂ Films Grown on Au(111). ACS Nano, 2021, 15, 14985-14995.	14.6	20
34	Domain Wall Automotion in Three-Dimensional Magnetic Helical Interconnectors. ACS Nano, 2022, 16, 8860-8868.	14.6	20
35	In situ growth of epitaxial cerium tungstate (100) thin films. Physical Chemistry Chemical Physics, 2011, 13, 7083.	2.8	19
36	Fe ₃ S ₄ (greigite) formation by vapor-solid reaction. Journal of Materials Chemistry A, 2014, 2, 1903-1913.	10.3	19

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37	A LEEM/ $\sqrt{4}$ -LEED investigation of phase transformations in TiO _x /Pt(111) ultrathin films. Physical Chemistry Chemical Physics, 2009, 11, 3727.	2.8	18
38	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
39	Strain relaxation in small adsorbate islands: O on W(110). Physical Review B, 2008, 77, .	3.2	16
40	Magnetization and structure of ultrathin Fe films. Physical Review B, 2009, 80, .	3.2	16
41	Chemical Waves and Rate Oscillations in the H ₂ + O ₂ Reaction on a Bimetallic Rh(111)/Ni Catalyst. Journal of Physical Chemistry C, 2012, 116, 4083-4090.	3.1	16
42	Locating Catalytically Active Oxygen on Ag(111) by A Spectromicroscopy Study. ChemCatChem, 2013, 5, 3342-3350.	3.7	16
43	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
44	Desorption kinetics from a surface derived from direct imaging of the adsorbate layer. Nature Communications, 2014, 5, 3853.	12.8	14
45	LEED- <i>I</i> (<i>V</i>) Structure Analysis of the (7 Å ²) _{rect} SO ₄ Phase on Ag(111): Precursor to the Active Species of the Ag-Catalyzed Ethylene Epoxidation. Journal of Physical Chemistry C, 2018, 122, 26998-27004.	3.1	14
46	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
47	Element-specific characterization of heterogeneous magnetism in (Ga,Fe)N films. Physical Review B, 2012, 85, .	3.2	13
48	Magnetization textures in NiPd nanostructures. Physical Review B, 2011, 84, .	3.2	12
49	Direct experimental determination of the anisotropic magnetoresistive effects. Applied Physics Letters, 2014, 104, 202407.	3.3	12
50	Imaging of magnetic nanodots on self-organized semiconductor substrates. Physical Review B, 2005, 71, .	3.2	11
51	Emergence of the Stoner-Wohlfarth astroid in thin films at dynamic regime. Scientific Reports, 2017, 7, 13474.	3.3	11
52	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
53	Domain faceting in an in-plane magnetic reorientation transition. Physical Review B, 2010, 82, .	3.2	10
54	Morphology and thermal stability of AlF ₃ thin films grown on Cu(100). Surface Science, 2012, 606, 573-579.	1.9	10

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55	Experimental investigation of the spin reorientation of Co/Au based magnetic nanodot arrays. <i>Physical Review B</i> , 2008, 77, .	3.2	9
56	Interfacial exchange-coupling induced chiral symmetry breaking of spin-orbit effects. <i>Physical Review B</i> , 2015, 92, .	3.2	9
57	Surfactant-assisted epitaxial growth and magnetism of Fe films on Cu(111). <i>Journal of Physics Condensed Matter</i> , 2008, 20, 265008.	1.8	8
58	Temperature dependence of surface stress across an order-disorder transition: $\text{p}(1\bar{1}-2)\text{O}/\text{W}(110)$. <i>Physical Review B</i> , 2010, 81, .	3.2	8
59	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
60	Chemical patterning of Ag(111): Spatially confined oxide formation induced by electron beam irradiation. <i>Applied Physics Letters</i> , 2008, 93, 233117.	3.3	7
61	Oxidation of Supported PtRh Particles: Size and Morphology Effects. <i>Journal of Physical Chemistry C</i> , 2010, 114, 16885-16891.	3.1	7
62	Composition uniformity of site-controlled InAs/GaAs quantum dots. <i>Journal of Crystal Growth</i> , 2011, 323, 176-179.	1.5	7
63	Control of the magnetization in pre-patterned half-metallic $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ nanostructures. <i>Journal of Applied Physics</i> , 2012, 112, 103921.	2.5	7
64	Magnetic ordering in an $(\text{Fe}_{0.2}\text{Cr}_{0.8})_{1.5}[\text{Cr}(\text{CN})_6]$ Prussian blue analogue studied with synchrotron radiation based spectroscopies. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8171-8186.	5.5	7
65	The cobalt oxidation state in preferential CO oxidation on $\text{CoO}/\text{Pt}(111)$ investigated by <i>operando</i> X-ray photoemission spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2022, , .	2.8	7
66	Stress engineering at the nanometer scale: Two-component adlayer stripes. <i>Europhysics Letters</i> , 2011, 94, 38003.	2.0	6
67	Photoinduced effects on the magnetic properties of the $(\text{Fe}_{0.2}\text{Cr}_{0.8})_{1.5}[\text{Cr}(\text{CN})_6]$ Prussian blue analogue. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2305-2317.	5.5	6
68	Surface Patterning of Silver using an Electron- or Photon-Assisted Oxidation Reaction. <i>ChemPhysChem</i> , 2010, 11, 1525-1532.	2.1	5
69	The effect of magnetic anisotropy on the spin configurations of patterned $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ elements. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 176004.	1.8	5
70	Reactivity of a FeS Surface under Room Temperature Exposure to Nitrogen and H_2S . <i>Journal of Physical Chemistry B</i> , 2018, 122, 705-712.	2.6	5
71	Growth of Co and Fe on Cu(111): experiment and BFS based calculations. <i>Applied Surface Science</i> , 2003, 219, 80-87.	6.1	4
72	Vacancy-mediated fcc/bcc phase separation in $\text{Fe}_{1-x}\text{Mn}_x$ films. <i>Physical Review B</i> , 2016, 94, .	2.1	4

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73	Ge Growth on Partially and Entirely Ag Covered Si(111). E-Journal of Surface Science and Nanotechnology, 2010, 8, 221-226.	0.4	4
74	Silver: a novel growth catalyst for Ge nanoislands on Si(113). Physica Status Solidi - Rapid Research Letters, 2009, 3, 305-307.	2.4	3
75	Growth of magnetic nanowires on self-organized stripe templates: Fe on Pd ¹⁰⁰ /W(110). Ultramicroscopy, 2013, 130, 82-86.	1.9	3
76	Phase Coexistence in Two-Dimensional Fe ₇₀ Ni ₃₀ Films on W(110). E-Journal of Surface Science and Nanotechnology, 2015, 13, 256-260.	0.4	3
77	Enantiosensitive Bonding of Chiral Molecules on a Magnetic Substrate Investigated by Means of Electron Spectroscopies. Chimia, 2018, 72, 418.	0.6	3
78	Surfactant control of growth and interface quality in granular magnetic {CoCu}/Cu(111) superlattices. Surface Science, 2001, 482-485, 1077-1082.	1.9	2
79	Growth, reaction and nanowire formation of Fe on the ZnS(100) surface. Journal of Physics Condensed Matter, 2014, 26, 315006.	1.8	2
80	Two-dimensional chiral asymmetry in unidirectional magnetic anisotropy structures. AIP Advances, 2016, 6, 055819.	1.3	2
81	Mazes and meso-islands: Impact of Ag preadsorption on Ge growth on Si(111). Physical Review B, 2016, 94, .	3.2	1
82	Enantiopure Supramolecular Motifs of Self-Assembled Diamine-Based Chiral Molecules on Cu(100). Journal of Physical Chemistry C, 2018, 122, 24129-24136.	3.1	1
83	Stable antiferromagnetic nanocrystals for room temperature applications: the case of iron nitride. Journal of Materials Chemistry C, 2019, 7, 9474-9480.	5.5	1
84	Interaction of chiral L-dialanine with Cu(100). Physical Chemistry Chemical Physics, 2022, 24, 8022-8031.	2.8	1