Javier MÃ©ndez

List of Publications by Year
in descending order

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74 papers	3,207 citations	236925 25 h-index	149698 56 g-index
74 all docs	74 docs citations	74 times ranked	4422 citing authors

#	Article	IF	Citations
1	Synthesis and Twoâ€Dimensional Chiral Surface Selfâ€Assembly of a Ï€â€Conjugated System with Threeâ€Fold Symmetry: Benzotri(7â€Azaindole). Angewandte Chemie - International Edition, 2021, 60, 1782-1788.	13.8	8
2	Synthesis and Twoâ€Dimensional Chiral Surface Selfâ€Assembly of a Ï€â€Conjugated System with Threeâ€Fold Symmetry: Benzotri(7â€Azaindole). Angewandte Chemie, 2021, 133, 1810-1816.	2.0	0
3	Frontispiece: Synthesis and Twoâ€Dimensional Chiral Surface Selfâ€Assembly of a Ï€â€Conjugated System with Threeâ€Fold Symmetry: Benzotri(7â€Azaindole). Angewandte Chemie - International Edition, 2021, 60, .	13.8	0
4	Frontispiz: Synthesis and Twoâ€Dimensional Chiral Surface Selfâ€Assembly of a Ï€â€Conjugated System with Threeâ€Fold Symmetry: Benzotri(7â€Azaindole). Angewandte Chemie, 2021, 133, .	2.0	0
5	In-situ study of the carbon gasification reaction of highly oriented pyrolytic graphite promoted by cobalt oxides and the novel nanostructures appeared after reaction. Carbon, 2020, 158, 588-597.	10.3	3
6	Controlled ultra-thin oxidation of graphite promoted by cobalt oxides: Influence of the initial 2D CoO wetting layer. Applied Surface Science, 2020, 509, 145118.	6.1	8
7	Optimization of a carbon evaporator cell for MBE growth. Vacuum, 2020, 181, 109653.	3.5	0
8	Re-Oxidation of ZnO Clusters Grown on HOPG. Coatings, 2020, 10, 401.	2.6	4
9	A Comparative Study of the ZnO Growth on Graphene and Graphene Oxide: The Role of the Initial Oxidation State of Carbon. Journal of Carbon Research, 2020, 6, 41.	2.7	12
10	Production and processing of graphene and related materials. 2D Materials, 2020, 7, 022001.	4.4	333
11	Growth of PTCDA Films on Various Substrates Studied by Scanning Tunneling Microscopy and Spectroscopy. Physica Status Solidi (B): Basic Research, 2019, 256, 1800333.	1.5	3
12	Study of the Interface of the Early Stages of Growth under Quasiâ€Equilibrium Conditions of ZnO on Graphene/Cu and Graphite. Advanced Materials Interfaces, 2019, 6, 1801689.	3.7	6
13	Chemistry below graphene: Decoupling epitaxial graphene from metals by potential-controlled electrochemical oxidation. Carbon, 2018, 129, 837-846.	10.3	30
14	Ultra-thin CoO films grown on different oxide substrates: Size and support effects and chemical stability. Journal of Alloys and Compounds, 2018, 758, 5-13.	5.5	3
15	Spectroscopic characterization of the on-surface induced (cyclo)dehydrogenation of a N-heteroaromatic compound on noble metal surfaces. Physical Chemistry Chemical Physics, 2017, 19, 22454-22461.	2.8	3
16	Scanning tunneling spectroscopic monitoring of surface states role on water passivation of InGaAs uncapped quantum dots. RSC Advances, 2017, 7, 33137-33142.	3.6	0
17	Role of the Pinning Points in epitaxial Graphene MoirÃ© Superstructures on the Pt(111) Surface. Scientific Reports, 2016, 6, 20354.	3.3	18
18	Structural properties and corrosion resistance of tantalum nitride coatings produced by reactive DC magnetron sputtering. RSC Advances, 2016, 6, 89061-89072.	3.6	65

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19	Growth of ordered molecular layers of PTCDA on Pb/Si(111) surfaces: a scanning tunneling microscopy study. Nanotechnology, 2016, 27, 365706.	2.6	6
20	Visualizing the interface state of PTCDA on Au(111) by scanning tunneling microscopy. Nanotechnology, 2016, 27, 475707.	2.6	7
21	Adsorption and coupling of 4-aminophenol on Pt(111) surfaces. Surface Science, 2016, 646, 5-12.	1.9	8
22	Nanopatterning on highly oriented pyrolytic graphite surfaces promoted by cobalt oxides. Carbon, 2015, 85, 89-98.	10.3	8
23	On-surface self-organization of a robust metalâ€“organic cluster based on copper(<scp>i</scp>) with chloride and organosulphur ligands. Chemical Communications, 2015, 51, 3243-3246.	4.1	4
24	Graphene growth on Pt(111) and Au(111) using a MBE carbon solid-source. Diamond and Related Materials, 2015, 57, 58-62.	3.9	27
25	Densely Packed Perylene Layers on the Rutile TiO₂(110)-(1 Ã— 1) Surface. Journal of Physical Chemistry C, 2015, 119, 7809-7816.	3.1	11
26	Study of the early stages of growth of Co oxides on oxide substrates. Surface and Interface Analysis, 2014, 46, 975-979.	1.8	9
27	Antiphase Boundaries Accumulation Forming a New C₆₀ Decoupled Crystallographic Phase on the Rutile TiO₂(110)-(1 Ã— 1) Surface. Journal of Physical Chemistry C, 2014, 118, 27318-27324.	3.1	5
28	Sublattice Localized Electronic States in Atomically Resolved Graphene-Pt(111) Edge-Boundaries. ACS Nano, 2014, 8, 3590-3596.	14.6	19
29	Vacancy formation on C60/Pt (111): unraveling the complex atomistic mechanism. Nanotechnology, 2014, 25, 385602.	2.6	25
30	Sequential formation of N-doped nanohelicenes, nanographenes and nanodomes by surface-assisted chemical (cyclo)dehydrogenation of heteroaromatics. Chemical Communications, 2014, 50, 1555.	4.1	23
31	The growth of cobalt oxides on HOPG and SiO2 surfaces: A comparative study. Surface Science, 2014, 624, 145-153.	1.9	22
32	Tailored Formation of N-Doped Nanoarchitectures by Diffusion-Controlled on-Surface (Cyclo)Dehydrogenation of Heteroaromatics. ACS Nano, 2013, 7, 3676-3684.	14.6	52
33	Commensurate Growth of Densely Packed PTCDI Islands on the Rutile TiO2(110) Surface. Journal of Physical Chemistry C, 2013, 117, 12639-12647.	3.1	21
34	Surface contributions to the XPS spectra of nanostructured NiO deposited on HOPG. Surface Science, 2012, 606, 1426-1430.	1.9	76
35	Large-area high-throughput synthesis of monolayer graphene sheet by Hot Filament Thermal Chemical Vapor Deposition. Scientific Reports, 2012, 2, 682.	3.3	138
36	On-surface synthesis of cyclic organic molecules. Chemical Society Reviews, 2011, 40, 4578.	38.1	154

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37	Influence of thermal ageing on surface degradation of ethyleneâ€propyleneâ€diene elastomer. Journal of Applied Polymer Science, 2011, 119, 242-251.	2.6	20
38	STM study of C60 overlayers on Pt(111) surfaces. Vacuum, 2011, 85, 1059-1062.	3.5	3
39	Interface effects in the electronic structure of TiO2 deposited on MgO, Al2O3 and SiO2 substrates. Surface Science, 2011, 605, 539-544.	1.9	10
40	Spontaneous Discrimination of Polycyclic Aromatic Hydrocarbon (PAH) Enantiomers on a Metal Surface. Chemistry - A European Journal, 2010, 16, 13920-13924.	3.3	8
41	Study of the morphology of NiO nanostructures grown on highly ordered pyrolytic graphite, by the Tougaard method and atomic force microscopy: a comparative study. Surface and Interface Analysis, 2010, 42, 869-873.	1.8	6
42	Understanding atomic-resolved STM images on TiO₂(110)-(1 Ã— 1) surface by DFT calculations. Nanotechnology, 2010, 21, 405702.	2.6	33
43	Adsorption and electronic properties of PTCDA molecules on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mtext>Si</mml:mtext><mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mn>111</mml:m Scanning tunneling microscopy and first-principles calculations. Physical Review B, 2010, 82, .	3.2	24
44	Metal-organic extended 2D structures: Fe-PTCDA on Au(111). Nanotechnology, 2010, 21, 305703.	2.6	20
45	Ordered Vacancy Network Induced by the Growth of Epitaxial Graphene on Pt(111). Physical Review Letters, 2010, 105, 216102.	7.8	70
46	Application of diamond-like carbon coatings to elastomers frictional surfaces. Tribology International, 2009, 42, 584-590.	5.9	24
47	Fullerenes from aromatic precursors by surface-catalysed cyclodehydrogenation. Nature, 2008, 454, 865-868.	27.8	291
48	Interface effects in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Ni</mml:mi><mml:mspace width="0.2em" /><mml:mn>2</mml:mn><mml:mi>p</mml:mi></mml:mrow></mml:math>x-ray photoelectron spectra of NiO thin films grown on oxide substrates. Physical Review B, 2008, 77, .	3.2	66
49	LEED-IV study of the rutileTiO2(110)â^'1Ã—2surface with a Ti-interstitial added-row reconstruction. Physical Review B, 2007, 75, .	3.2	27
50	Surface analysis of NBR and HNBR elastomers modified with different plasma treatments. Vacuum, 2007, 81, 1489-1492.	3.5	21
51	Structure of RutileTiO2(110)â^'(1Ã—2): Formation ofTi2O3Quasi-1D Metallic Chains. Physical Review Letters, 2006, 96, 055502.	7.8	60
52	Scanning tunneling and photoemission spectroscopies at the PTCDA/Au(111) interface. Organic Electronics, 2006, 7, 287-294.	2.6	108
53	Ultra-thin Si overlayers on the TiO2 (110)-(1Ã—2) surface: Growth mode and electronic properties. Surface Science, 2006, 600, 2696-2704.	1.9	12
54	Nanostructured Organic Material: From Molecular Chains to Organic Nanodots. Advanced Materials, 2006, 18, 2048-2052.	21.0	37

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55	Enhanced reactivity of adsorbed oxygen on Pd(111) induced by compression of the oxygen layer. Physical Review B, 2005, 72, .	3.2	21
56	Coadsorption phases ofCOand oxygen on Pd(111) studied by scanning tunneling microscopy. Physical Review B, 2005, 71, .	3.2	37
57	Origin of contrast in STM images of oxygen on Pd(111) and its dependence on tip structure and tunneling parameters. Physical Review B, 2005, 71, .	3.2	30
58	Growth and morphology of SnPc films on the S-GaAs(001) surface: a combined XPS, AFM and NEXAFS study. Applied Surface Science, 2004, 234, 131-137.	6.1	32
59	Growth of subnanometer-thin Si overlayer on TiO2 (110)-(1Ã—2) surface. Applied Surface Science, 2004, 234, 497-502.	6.1	13
60	Optical properties and molecular orientation in organic thin films. Journal of Physics Condensed Matter, 2003, 15, S2699-S2718.	1.8	30
61	Scanning tunnelling microscopy and spectroscopy on organic PTCDA films deposited on sulfur passivated GaAs(001). Journal of Physics Condensed Matter, 2003, 15, S2619-S2629.	1.8	24
62	Preparation and passivation of GaAs(001) surfaces for growing organic molecules. Nanotechnology, 2002, 13, 352-356.	2.6	10
63	Synthesis and structure of ordered stoichiometric Pt3Mn-based surface alloys. Surface Science, 2001, 482-485, 1303-1307.	1.9	8
64	Initial growth of Cu on Ir(100)-(5Ã—1). Surface Science, 2000, 448, 290-304.	1.9	32
65	Growth of chromium on the structured surface of Al2O3/NiAl(100). Applied Surface Science, 1999, 142, 152-158.	6.1	11
66	Field emission interferometry with the scanning tunneling microscope. Surface Science, 1999, 426, L420-L425.	1.9	20
67	Formation of new terraces via diffusion induced by the field gradient in scanning tunneling microscopy. Applied Physics A: Materials Science and Processing, 1998, 66, S767-S769.	2.3	6
68	Electrical and mechanical properties of metallic nanowires: Conductance quantization and localization. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1995, 13, 1280.	1.6	30
69	Properties of Metallic Nanowires: From Conductance Quantization to Localization. Science, 1995, 267, 1793-1795.	12.6	357
70	Pascualet al. reply. Physical Review Letters, 1994, 72, 1129-1129.	7.8	18
71	Scanning tunneling microscope for ultra-high vacuum with a high-precision coarse positioning. Ultramicroscopy, 1993, 48, 315-320.	1.9	3
72	Quantum contact in gold nanostructures by scanning tunneling microscopy. Physical Review Letters, 1993, 71, 1852-1855.	7.8	556

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73	Real time electron microscopy inspection of high temperature processes in W free standing wires. Applied Physics Letters, 1993, 62, 1077-1078.	3.3	4
74	Preparation of STM W tips and characterization by FEM, TEM and SEM. Surface Science, 1992, 266, 294-298.	1.9	14