

Javier MÃ©ndez

List of Publications by Year in descending order

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74
papers

3,207
citations

236925

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149698

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74
all docs

74
docs citations

74
times ranked

4422
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum contact in gold nanostructures by scanning tunneling microscopy. <i>Physical Review Letters</i> , 1993, 71, 1852-1855.	7.8	556
2	Properties of Metallic Nanowires: From Conductance Quantization to Localization. <i>Science</i> , 1995, 267, 1793-1795.	12.6	357
3	Production and processing of graphene and related materials. <i>2D Materials</i> , 2020, 7, 022001.	4.4	333
4	Fullerenes from aromatic precursors by surface-catalysed cyclodehydrogenation. <i>Nature</i> , 2008, 454, 865-868.	27.8	291
5	On-surface synthesis of cyclic organic molecules. <i>Chemical Society Reviews</i> , 2011, 40, 4578.	38.1	154
6	Large-area high-throughput synthesis of monolayer graphene sheet by Hot Filament Thermal Chemical Vapor Deposition. <i>Scientific Reports</i> , 2012, 2, 682.	3.3	138
7	Scanning tunneling and photoemission spectroscopies at the PTCDA/Au(111) interface. <i>Organic Electronics</i> , 2006, 7, 287-294.	2.6	108
8	Surface contributions to the XPS spectra of nanostructured NiO deposited on HOPG. <i>Surface Science</i> , 2012, 606, 1426-1430.	1.9	76
9	Ordered Vacancy Network Induced by the Growth of Epitaxial Graphene on Pt(111). <i>Physical Review Letters</i> , 2010, 105, 216102.	7.8	70
10	Interface effects in the Ni/NiO x-ray photoelectron spectra of NiO thin films grown on oxide substrates. <i>Physical Review B</i> , 2008, 77, .	3.2	66
11	Structural properties and corrosion resistance of tantalum nitride coatings produced by reactive DC magnetron sputtering. <i>RSC Advances</i> , 2016, 6, 89061-89072.	3.6	65
12	Structure of Rutile $\text{TiO}_2(110)$ (1\AA^{-2}): Formation of Ti_2O_3 Quasi-1D Metallic Chains. <i>Physical Review Letters</i> , 2006, 96, 055502.	7.8	60
13	Tailored Formation of N-Doped Nanoarchitectures by Diffusion-Controlled on-Surface (Cyclo)Dehydrogenation of Heteroaromatics. <i>ACS Nano</i> , 2013, 7, 3676-3684.	14.6	52
14	Coadsorption phases of CO and oxygen on Pd(111) studied by scanning tunneling microscopy. <i>Physical Review B</i> , 2005, 71, .	3.2	37
15	Nanostructured Organic Material: From Molecular Chains to Organic Nanodots. <i>Advanced Materials</i> , 2006, 18, 2048-2052.	21.0	37
16	Understanding atomic-resolved STM images on $\text{TiO}_2(110)$ (1\AA^{-1}) surface by DFT calculations. <i>Nanotechnology</i> , 2010, 21, 405702.	2.6	33
17	Initial growth of Cu on Ir(100)-(5\AA^{-1}). <i>Surface Science</i> , 2000, 448, 290-304.	1.9	32
18	Growth and morphology of SnPc films on the S-GaAs(001) surface: a combined XPS, AFM and NEXAFS study. <i>Applied Surface Science</i> , 2004, 234, 131-137.	6.1	32

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19	Electrical and mechanical properties of metallic nanowires: Conductance quantization and localization. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1995, 13, 1280.	1.6	30
20	Optical properties and molecular orientation in organic thin films. <i>Journal of Physics Condensed Matter</i> , 2003, 15, S2699-S2718.	1.8	30
21	Origin of contrast in STM images of oxygen on Pd(111) and its dependence on tip structure and tunneling parameters. <i>Physical Review B</i> , 2005, 71, .	3.2	30
22	Chemistry below graphene: Decoupling epitaxial graphene from metals by potential-controlled electrochemical oxidation. <i>Carbon</i> , 2018, 129, 837-846.	10.3	30
23	LEED-IV study of the rutile TiO ₂ (110) $\sqrt{1\times 2}$ surface with a Ti-interstitial added-row reconstruction. <i>Physical Review B</i> , 2007, 75, .	3.2	27
24	Graphene growth on Pt(111) and Au(111) using a MBE carbon solid-source. <i>Diamond and Related Materials</i> , 2015, 57, 58-62.	3.9	27
25	Vacancy formation on C ₆₀ /Pt (111): unraveling the complex atomistic mechanism. <i>Nanotechnology</i> , 2014, 25, 385602.	2.6	25
26	Scanning tunnelling microscopy and spectroscopy on organic PTCDA films deposited on sulfur passivated GaAs(001). <i>Journal of Physics Condensed Matter</i> , 2003, 15, S2619-S2629.	1.8	24
27	Application of diamond-like carbon coatings to elastomers frictional surfaces. <i>Tribology International</i> , 2009, 42, 584-590.	5.9	24
28	Adsorption and electronic properties of PTCDA molecules on $\text{Si}(111)$ surface. Scanning tunneling microscopy and first-principles calculations. <i>Physical Review B</i> , 2010, 82, .	3.2	24
29	Sequential formation of N-doped nanohelicenes, nanographenes and nanodomes by surface-assisted chemical (cyclo)dehydrogenation of heteroaromatics. <i>Chemical Communications</i> , 2014, 50, 1555.	4.1	23
30	The growth of cobalt oxides on HOPG and SiO ₂ surfaces: A comparative study. <i>Surface Science</i> , 2014, 624, 145-153.	1.9	22
31	Enhanced reactivity of adsorbed oxygen on Pd(111) induced by compression of the oxygen layer. <i>Physical Review B</i> , 2005, 72, .	3.2	21
32	Surface analysis of NBR and HNBR elastomers modified with different plasma treatments. <i>Vacuum</i> , 2007, 81, 1489-1492.	3.5	21
33	Commensurate Growth of Densely Packed PTCDI Islands on the Rutile TiO ₂ (110) Surface. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12639-12647.	3.1	21
34	Field emission interferometry with the scanning tunneling microscope. <i>Surface Science</i> , 1999, 426, L420-L425.	1.9	20
35	Metal-organic extended 2D structures: Fe-PTCDA on Au(111). <i>Nanotechnology</i> , 2010, 21, 305703.	2.6	20
36	Influence of thermal ageing on surface degradation of ethylene- ϵ -propylene- ϵ -diene elastomer. <i>Journal of Applied Polymer Science</i> , 2011, 119, 242-251.	2.6	20

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37	Sublattice Localized Electronic States in Atomically Resolved Graphene-Pt(111) Edge-Boundaries. ACS Nano, 2014, 8, 3590-3596.	14.6	19
38	Pascualet al. reply. Physical Review Letters, 1994, 72, 1129-1129.	7.8	18
39	Role of the Pinning Points in epitaxial Graphene MoirÃ© Superstructures on the Pt(111) Surface. Scientific Reports, 2016, 6, 20354.	3.3	18
40	Preparation of STM W tips and characterization by FEM, TEM and SEM. Surface Science, 1992, 266, 294-298.	1.9	14
41	Growth of subnanometer-thin Si overlayer on TiO ₂ (110)-(1Ã-2) surface. Applied Surface Science, 2004, 234, 497-502.	6.1	13
42	Ultra-thin Si overlayers on the TiO ₂ (110)-(1Ã-2) surface: Growth mode and electronic properties. Surface Science, 2006, 600, 2696-2704.	1.9	12
43	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
44	Growth of chromium on the structured surface of Al ₂ O ₃ /NiAl(100). Applied Surface Science, 1999, 142, 152-158.	6.1	11
45	Densely Packed Perylene Layers on the Rutile TiO ₂ (110)-(1 Ã- 1) Surface. Journal of Physical Chemistry C, 2015, 119, 7809-7816.	3.1	11
46	Preparation and passivation of GaAs(001) surfaces for growing organic molecules. Nanotechnology, 2002, 13, 352-356.	2.6	10
47	Interface effects in the electronic structure of TiO ₂ deposited on MgO, Al ₂ O ₃ and SiO ₂ substrates. Surface Science, 2011, 605, 539-544.	1.9	10
48	Study of the early stages of growth of Co oxides on oxide substrates. Surface and Interface Analysis, 2014, 46, 975-979.	1.8	9
49	Synthesis and structure of ordered stoichiometric Pt ₃ Mn-based surface alloys. Surface Science, 2001, 482-485, 1303-1307.	1.9	8
50	Spontaneous Discrimination of Polycyclic Aromatic Hydrocarbon (PAH) Enantiomers on a Metal Surface. Chemistry - A European Journal, 2010, 16, 13920-13924.	3.3	8
51	Nanopatterning on highly oriented pyrolytic graphite surfaces promoted by cobalt oxides. Carbon, 2015, 85, 89-98.	10.3	8
52	Adsorption and coupling of 4-aminophenol on Pt(111) surfaces. Surface Science, 2016, 646, 5-12.	1.9	8
53	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
54	Synthesis and Two-dimensional Chiral Surface Self-assembly of a Conjugated System with Three-fold Symmetry: Benzotri(7-azaindole). Angewandte Chemie - International Edition, 2021, 60, 1782-1788.	13.8	8

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55	Visualizing the interface state of PTCDA on Au(111) by scanning tunneling microscopy. <i>Nanotechnology</i> , 2016, 27, 475707.	2.6	7
56	Formation of new terraces via diffusion induced by the field gradient in scanning tunneling microscopy. <i>Applied Physics A: Materials Science and Processing</i> , 1998, 66, S767-S769.	2.3	6
57	Study of the morphology of NiO nanostructures grown on highly ordered pyrolytic graphite, by the Tougaard method and atomic force microscopy: a comparative study. <i>Surface and Interface Analysis</i> , 2010, 42, 869-873.	1.8	6
58	Growth of ordered molecular layers of PTCDA on Pb/Si(111) surfaces: a scanning tunneling microscopy study. <i>Nanotechnology</i> , 2016, 27, 365706.	2.6	6
59	Study of the Interface of the Early Stages of Growth under Quasi-Equilibrium Conditions of ZnO on Graphene/Cu and Graphite. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801689.	3.7	6
60	Antiphase Boundaries Accumulation Forming a New C ₆₀ Decoupled Crystallographic Phase on the Rutile TiO ₂ (110)-(1 Å ⁻¹) Surface. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27318-27324.	3.1	5
61	Real time electron microscopy inspection of high temperature processes in W free standing wires. <i>Applied Physics Letters</i> , 1993, 62, 1077-1078.	3.3	4
62	On-surface self-organization of a robust metal-organic cluster based on copper(<i>scp</i>) with chloride and organosulphur ligands. <i>Chemical Communications</i> , 2015, 51, 3243-3246.	4.1	4
63	Re-Oxidation of ZnO Clusters Grown on HOPG. <i>Coatings</i> , 2020, 10, 401.	2.6	4
64	Scanning tunneling microscope for ultra-high vacuum with a high-precision coarse positioning. <i>Ultramicroscopy</i> , 1993, 48, 315-320.	1.9	3
65	STM study of C60 overlayers on Pt(111) surfaces. <i>Vacuum</i> , 2011, 85, 1059-1062.	3.5	3
66	Spectroscopic characterization of the on-surface induced (cyclo)dehydrogenation of a N-heteroaromatic compound on noble metal surfaces. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22454-22461.	2.8	3
67	Ultra-thin CoO films grown on different oxide substrates: Size and support effects and chemical stability. <i>Journal of Alloys and Compounds</i> , 2018, 758, 5-13.	5.5	3
68	Growth of PTCDA Films on Various Substrates Studied by Scanning Tunneling Microscopy and Spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800333.	1.5	3
69	In-situ study of the carbon gasification reaction of highly oriented pyrolytic graphite promoted by cobalt oxides and the novel nanostructures appeared after reaction. <i>Carbon</i> , 2020, 158, 588-597.	10.3	3
70	Optimization of a carbon evaporator cell for MBE growth. <i>Vacuum</i> , 2020, 181, 109653.	3.5	0
71	Synthesis and Two-Dimensional Chiral Surface Self-Assembly of a π -Conjugated System with Three-Fold Symmetry: Benzotri(7-azaindole). <i>Angewandte Chemie</i> , 2021, 133, 1810-1816.	2.0	0
72	Frontispiece: Synthesis and Two-Dimensional Chiral Surface Self-Assembly of a π -Conjugated System with Three-Fold Symmetry: Benzotri(7-azaindole). <i>Angewandte Chemie - International Edition</i> , 2021, 60, .	13.8	0

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73	Frontispiz: Synthesis and Twoâ€­Dimensional Chiral Surface Selfâ€­Assembly of a Î€â€­Conjugated System with Threeâ€­Fold Symmetry: Benzotri(7â€­Azaindole). <i>Angewandte Chemie</i> , 2021, 133, .	2.0	0
74	Scanning tunneling spectroscopic monitoring of surface states role on water passivation of InGaAs uncapped quantum dots. <i>RSC Advances</i> , 2017, 7, 33137-33142.	3.6	0