MarÃ-a E DÃ¡vila

List of Publications by Year
in descending order

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52 papers	2,730 citations	471509 17 h-index	233421 45 g-index
54 all docs	54 docs citations	54 times ranked	3454 citing authors

#	Article	IF	Citations
1	New insight on the role of localisation in the electronic structure of the Si(111)(7â€‰Ã—â€‰7) surfaces. Scientific Reports, 2021, 11, 15034.	3.3	1
2	Low-secondary electron emission yield under electron bombardment of microstructured surfaces, looking for multipactor effect suppression. Journal of Electron Spectroscopy and Related Phenomena, 2020, 241, 146822.	1.7	14
3	Reducing the dimensionality of novel materials: one-dimensional silicon nanoribbons. , 2020, , 221-249.		1
4	Dynamic secondary electron emission in rough composite materials. Scientific Reports, 2019, 9, 13967.	3.3	5
5	Nanostructured Coatings of Low-Secondary Electron Emission to Avoid Multipactor Discharge in High-Power Microwave Devices. , 2019, , .		0
6	Insight into the spin state at the surface of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>LaCoO</mml:mi><mml:mn>3</mml:mn></mml:msub></r by photoemission electron microscopy. Physical Review B, 2016, 93, .	3.2	4
7	Few layer epitaxial germanene: a novel two-dimensional Dirac material. Scientific Reports, 2016, 6, 20714.	3.3	218
8	Unveiling the pentagonal nature of perfectly aligned single-and double-strand Si nano-ribbons on Ag(110). Nature Communications, 2016, 7, 13076.	12.8	98
9	Elemental Group IV Two-Dimensional Materials Beyond Graphene. Semiconductors and Semimetals, 2016, , 149-188.	0.7	11
10	Increasing the lego of 2D electronics materials: silicene and germanene, graphene's new synthetic cousins. , 2015, , .		4
11	Secondary electron emission under electron bombardment from graphene nanoplatelets. Applied Surface Science, 2014, 291, 74-77.	6.1	42
12	Germanene: a novel two-dimensional germanium allotrope akin to graphene and silicene. New Journal of Physics, 2014, 16, 095002.	2.9	1,255
13	CuO nanowires for inhibiting secondary electron emission. Journal Physics D: Applied Physics, 2013, 46, 165104.	2.8	42
14	Mn-silicide nanostructures aligned on massively parallel silicon nano-ribbons. Journal of Physics Condensed Matter, 2013, 25, 014009.	1.8	10
15	Comparative structural and electronic studies of hydrogen interaction with isolated versus ordered silicon nanoribbons grown on Ag(110). Nanotechnology, 2012, 23, 385703.	2.6	42
16	Physics of Silicene Stripes. Journal of Superconductivity and Novel Magnetism, 2009, 22, 259-263.	1.8	142
17	Physics and chemistry of silicene nano-ribbons. Applied Surface Science, 2009, 256, 524-529.	6.1	170
18	Graphene-like Silicon Nano-ribbons on the Silver (110) Surface. , 2008, , .		0

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19	Silicon quantum wires on Ag(110): Fermi surface and quantum well states. Applied Surface Science, 2007, 254, 50-54.	6.1	7
20	Influence of the Synthetic Pathway on the Properties of Oxygen-Deficient Manganese-Related Perovskites. European Journal of Inorganic Chemistry, 2007, 2007, 3350-3355.	2.0	13
21	Origin of localized states in graphite: Indirect photoemission processes or impurities?. Applied Surface Science, 2007, 254, 55-61.	6.1	3
22	Influence of Mn2+ in the magnetic behaviour of manganese related-perovskites. Journal of Physics and Chemistry of Solids, 2006, 67, 571-574.	4.0	6
23	Electronic properties of high oriented pyrolitic graphite: Recent discoveries. Journal of Physics and Chemistry of Solids, 2006, 67, 546-551.	4.0	7
24	Perturbation of Ge(111) and Si(111)âˆš3Î±-Sn surfaces by adsorption of dopants. Surface Science, 2006, 600, 3154-3159.	1.9	4
25	Self-aligned silicon quantum wires on Ag(110). Surface Science, 2005, 574, L9-L15.	1.9	141
26	Epitaxy and Magnetic Properties of Surfactant-Mediated Growth of bcc Cobalt. Physical Review Letters, 2005, 94, 187601.	7.8	25
27	Giant effect of electron and hole donation onSnâˆ•Ge(111)andSnâˆ•Si(111)surfaces. Physical Review B, 2004, 70, .	3.2	23
28	Photoelectron diffraction study of Ag growth mediated by an arsenic layer on Si(1 1 1)1 Ã— 1. Journal of Electron Spectroscopy and Related Phenomena, 2004, 137-140, 155-160.	1.7	0
29	Influence of the substrate surface termination on the properties of bcc-cobalt films: GaAs(110) versus Sb/GaAs(110). Applied Surface Science, 2004, 234, 468-474.	6.1	7
30	Surface phase transitions at metalâ€“semiconductor interfaces: a revisit is needed. Applied Surface Science, 2004, 234, 274-285.	6.1	8
31	Structural characterization using spectroscopic techniques of Yb films grown on W(110) under ultrahigh vacuum conditions. Journal of Applied Physics, 2003, 93, 5075-5079.	2.5	1
32	COMPLEX BEHAVIORS AT SIMPLE SEMICONDUCTOR AND METAL/SEMICONDUCTOR SURFACES. Surface Review and Letters, 2003, 10, 981-1008.	1.1	16
33	Structural determination of Yb single-crystal films grown on W(110) using photoelectron diffraction. Physical Review B, 2002, 66, .	3.2	9
34	Surface-core-level-shift photoelectron diffraction of Yb(111) films grown on W(110). Surface and Interface Analysis, 2002, 33, 595-600.	1.8	1
35	Angle-scanned photoemission spectrum from Cu(1 0 0): theory vs experiment. Surface Science, 2001, 482-485, 718-722.	1.9	3
36	Determination of the lattice relaxation at the Yb(111) surface using chemical-shift photoelectron diffraction. Physical Review B, 2000, 62, 1635-1638.	3.2	11

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37	Oxidation of Ce on Si(111) studied by high-resolution photoelectron spectroscopy. Surface Science, 2000, 464, 117-122.	1.9	7
38	In Situ Magnetic-Circular-X-Ray-Dichroism Measurements: An Epitaxial Fe Wedge on Cu(100). MRS Bulletin, 1999, 24, 41-45.	3.5	1
39	Magnetic circular X-ray dichroism of metastable epitaxial Fe on Cu(1 0 0). Journal of Magnetism and Magnetic Materials, 1999, 196-197, 120-122.	2.3	3
40	Interaction between As and InP(110) studied by high resolution core level photoemission. Applied Surface Science, 1998, 123-124, 95-99.	6.1	2
41	Adsorption of SO2 on Cu(100) and Cu(100)-c(2 Ã— 2)-O surfaces studied with photoelectron spectroscopy. Vacuum, 1998, 49, 171-174.	3.5	20
42	Reaction of oxygen and sulphur dioxide with Cu(100)-c(2Ã—2)-Mn surface alloy. Surface Science, 1998, 408, 326-334.	1.9	29
43	Structure determination of using scanned-energy mode photoelectron diffraction. Journal of Physics Condensed Matter, 1997, 9, 8419-8432.	1.8	17
44	Electronic band structure of (100). Journal of Physics Condensed Matter, 1997, 9, 1871-1876.	1.8	1
45	Local Structure ofNH2onSi(100)â^'(2Ã—1)and its Effect on the Asymmetry of the Si Surface Dimers. Physical Review Letters, 1997, 79, 673-676.	7.8	52
46	A scanned-energy mode photoelectron diffraction study of the structure of Ni(111)(2 Ã— 2)-O. Surface Science, 1996, 359, 185-197.	1.9	17
47	Optical Absorption and Raman Scattering Measurements in CuAlSe₂ at High Pressure. Physica Status Solidi (B): Basic Research, 1996, 198, 99-104.	1.5	29
48	Electronic structure close to EFin low-level alkali-doped C60. Journal of Physics Condensed Matter, 1994, 6, 925-932.	1.8	7
49	Structure determination of Ni(111)c(4 Ã— 2)-CO and its implications for the interpretation of vibrational spectroscopic data. Surface Science, 1994, 311, 337-348.	1.9	105
50	Is the frequency of the internal mode of an adsorbed diatomic molecule a reliable guide to its local adsorption site?. Journal of Electron Spectroscopy and Related Phenomena, 1993, 64-65, 75-83.	1.7	80
51	Analyzing transients on multiconductor lines with corona. , 0, , .		1
52	Silicene and germanene: advanced synthetic 2D materials for future electronics. SPIE Newsroom, 0, , .	0.1	0