Olga SÃ¡nchez

List of Publications by Year
in descending order

65 papers	1,009 citations	430874 18 h-index	477307 29 g-index
65 all docs	65 docs citations	65 times ranked	1146 citing authors

#	Article	IF	Citations
1	Growth of CrNx films by DC reactive magnetron sputtering at constant N2/Ar gas flow. Surface and Coatings Technology, 2006, 200, 6047-6053.	4.8	60
2	Chemical stability of TiN, TiAlN and AlN layers in aggressive SO2 environments. Surface and Interface Analysis, 2005, 37, 1082-1091.	1.8	58
3	Intrinsic anomalous surface roughening of TiN films deposited by reactive sputtering. Physical Review B, 2006, 73, .	3.2	54
4	Influence of the oxygen partial pressure and post-deposition annealing on the structure and optical properties of ZnO films grown by dc magnetron sputtering at room temperature. Journal Physics D: Applied Physics, 2012, 45, 025303.	2.8	47
5	Optical emission characterization of CH4+H2discharges for diamond deposition. Journal of Applied Physics, 1993, 74, 3752-3757.	2.5	46
6	Structure and morphology evolution of ALN films grown by DC sputtering. Surface and Coatings Technology, 2004, 180-181, 140-144.	4.8	44
7	X-ray absorption spectroscopy and atomic force microscopy study of bias-enhanced nucleation of diamond films. Applied Physics Letters, 1998, 72, 2105-2107.	3.3	41
8	Growth dynamics of reactive-sputtering-deposited AlN films. Journal of Applied Physics, 2005, 97, 123528.	2.5	35
9	Hardness and tribology measurements on ZrN coatings deposited by reactive sputtering technique. Vacuum, 2007, 81, 1462-1465.	3.5	33
10	Effect of the substrate temperature on the deposition of hydrogenated amorphous carbon by PACVD at 35 kHz. Thin Solid Films, 1999, 338, 88-92.	1.8	32
11	Deposition of TiN/AlN bilayers on a rotating substrate by reactive sputtering. Surface and Coatings Technology, 2002, 157, 26-33.	4.8	32
12	Correlation between structure and optical properties in low emissivity coatings for solar thermal collectors. Thin Solid Films, 2010, 518, 5720-5723.	1.8	29
13	Improving the visible transmittance of low-e titanium nitride based coatings for solar thermal applications. Applied Surface Science, 2011, 258, 1784-1788.	6.1	28
14	Molding and Replication of Ceramic Surfaces with Nanoscale Resolution. Small, 2005, 1, 300-309.	10.0	27
15	Wear resistance of titaniumâ€"aluminiumâ€"chromiumâ€"nitride nanocomposite thin films. Vacuum, 2007, 81, 1453-1456.	3.5	23
16	Compositional and structural properties of nanostructured ZnO thin films grown by oblique angle reactive sputtering deposition: effect on the refractive index. Journal Physics D: Applied Physics, 2013, 46, 045306.	2.8	23
17	Hydrothermal growth of CdS and ZnS Nanoparticles in MOR-type zeolites. Materials Science and Engineering C, 2001, 15, 101-104.	7.3	21
18	Effect of surface fractality on the permeability of transparent gas barrier coatings. Advanced Materials, 1997, 9, 654-658.	21.0	20

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19	Theoretical Approach for the Constant Voltage Stage in Anodic Oxidation. Journal of the Electrochemical Society, 1986, 133, 876-879.	2.9	19
20	SiOxNy films deposited by remote plasma enhanced chemical vapor deposition using SiCl4. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1996, 14, 2088-2093.	2.1	17
21	An XPS and ellipsometry study of Crâ€"Oâ€"Al mixed oxides grown by reactive magnetron sputtering. Surface and Coatings Technology, 2011, 206, 1484-1489.	4.8	17
22	Model of the bias-enhanced nucleation of diamond on silicon based on atomic force microscopy and x-ray-absorption studies. Physical Review B, 2000, 61, 10383-10387.	3.2	16
23	Functional nanostructured titanium nitride films obtained by sputtering magnetron. Thin Solid Films, 2006, 495, 149-153.	1.8	16
24	CdS doped-MOR type zeolite characterization. Solid-State Electronics, 1999, 43, 1171-1175.	1.4	15
25	Preparation and properties of novel magnetic composite nanostructures: Arrays of nanowires in porous membranes. Physica B: Condensed Matter, 2006, 384, 36-40.	2.7	15
26	TiN/AlN bilayers and multilayers grown by magnetron co-sputtering. Thin Solid Films, 2003, 433, 211-216.	1.8	13
27	Coordination chemistry of titanium and zinc in Ti(1â^'x)Zn2xO2 (0 â‰¤xâ‰¤ 1) ultrathin films grown by DC reactive magnetron sputtering. RSC Advances, 2012, 2, 2696.	3.6	13
28	Influence on the electrical characteristics of the -NH radicals incorporated into PECVD silicon nitride films. Vacuum, 1989, 39, 727-729.	3.5	12
29	Influence of the discharge frequency (35 kHz and 13.56 MHz) on the composition of plasma enhanced chemical vapor deposition aâ€:H films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1993, 11, 143-146.	2.1	12
30	Study of the plasma discharges in diamond deposition with different O2 concentrations. Diamond and Related Materials, 1994, 3, 1183-1187.	3.9	12
31	Influence of Methane Concentration on the Nucleation and Growth Stages in Diamond Film Deposition. Physica Status Solidi A, 1996, 154, 23-32.	1.7	12
32	Plasma-enhanced chemically vapour deposited Si3N4 thin films for optical waveguides. Thin Solid Films, 1992, 220, 311-314.	1.8	11
33	Deposition of diamond and boron nitride films by plasma chemical vapour deposition. Surface and Coatings Technology, 1995, 70, 163-174.	4.8	11
34	Relationship between the microstructure and the water permeability of transparent gas barrier coatings. Surface and Coatings Technology, 1998, 100-101, 459-462.	4.8	10
35	Micromechanical properties of diamond films deposited by microwave-plasma-enhanced chemical vapour deposition. Diamond and Related Materials, 1993, 2, 933-938.	3.9	9
36	Dielectric and Raman spectroscopy of MWCVD diamond thin films. Journal of Materials Science: Materials in Electronics, 1996, 7, 297.	2.2	9

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37	Plasma assisted chemical vapor deposition silicon oxynitride films grown from SiH4+NH3+O2 gas mixtures. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 2757-2761.	2.1	9
38	Effect of the Incorporation of Titanium on the Optical Properties of ZnO Thin Films: From Doping to Mixed Oxide Formation. Coatings, 2019, 9, 180.	2.6	9
39	Titanium nitride stamps replicating nanoporous anodic alumina films. Nanotechnology, 2007, 18, 165302.	2.6	8
40	Influence of the aluminum incorporation on the structure of sputtered ZrNx films deposited at low temperatures. Vacuum, 2009, 83, 1236-1239.	3.5	8
41	Control of the optical properties of silicon and chromium mixed oxides deposited by reactive magnetron sputtering. Thin Solid Films, 2011, 519, 3509-3515.	1.8	7
42	Corrosion behaviour of AlN and TiAlN coatings on iron. Surface and Interface Analysis, 2006, 38, 243-247.	1.8	6
43	Influence of aluminium incorporation on the structure of ZrN films deposited at low temperatures. Journal Physics D: Applied Physics, 2009, 42, 115422.	2.8	6
44	Continuous and Nanostructured TiO₂ Films Grown by dc Sputtering Magnetron. Journal of Nanoscience and Nanotechnology, 2012, 12, 9148-9155.	0.9	6
45	In-depth multi-technique characterization of chromiumâ€“silicon mixed oxides produced by reactive ion beam mixing of the Cr/Si interface. Journal of Analytical Atomic Spectrometry, 2012, 27, 390.	3.0	6
46	Influence of oxygen on the deposition of diamond coatings by microwave plasma CVD. Vacuum, 1994, 45, 1015-1016.	3.5	5
47	STM nanometric study of the initial stages of diamond film growth: quantitative measurement of {111} and {100} surface roughness. Diamond and Related Materials, 1994, 3, 715-719.	3.9	5
48	Influence of oxygen on the nucleation and growth of diamond films. Thin Solid Films, 1997, 303, 34-38.	1.8	5
49	Characterization of SiOxNy films deposited from SiCl4 by remote plasma-enhanced chemical vapor deposition. Thin Solid Films, 1998, 317, 149-152.	1.8	5
50	SiOxNy Films deposited with SiCl4 by remote plasma enhanced CVD. Journal of Materials Science, 1999, 34, 3007-3012.	3.7	5
51	TixSiyN nanocomposites by cathodic arc plasma deposition. Vacuum, 2009, 83, 1233-1235.	3.5	5
52	CVD of Covalent Compounds and high-Tc superconductors. Advanced Materials, 1995, 7, 111-119.	21.0	4
53	Silicon nitride films deposited from SiF4/NH3 gas mixtures. Journal of Materials Science, 1991, 26, 4683-4686.	3.7	3
54	Dielectric relaxation of amorphous and textured MIS-capacitor thin films. Solid-State Electronics, 1998, 42, 925-930.	1.4	3

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55	Synthesis and characterization of porous silica thin films deposited from MCM-41 evaporation. Thin Solid Films, 2002, 402, 111-116.	1.8	3
56	Oxynytride layers obtained by anodic oxidation of plasma-enhanced chemically vapour deposited Si3N4 films. Thin Solid Films, 1989, 175, 49-53.	1.8	2
57	ZnO1-xTex thin films deposited by reactive magnetron co-sputtering: composition, structure and optical properties. MRS Advances, 2017, 2, 3111-3116.	0.9	2
58	Special Issue â€œ1D, 2D, and 3D ZnO: Synthesis, Characterization, and Applicationsâ€• Coatings, 2021, 11, 696.	2.6	2
59	I.r. spectra resolution in fluorinated silicon nitride films. Journal of Materials Science, 1991, 26, 6244-6248.	3.7	1
60	Nucleation and initial stages of growth of diamond films on silicon. Scripta Metallurgica Et Materialia, 1994, 31, 1103-1108.	1.0	1
61	ZnOTe Compounds Grown by DC-Magnetron Co-Sputtering. Coatings, 2021, 11, 570.	2.6	1
62	Infrared absorption and xâ€•ray photoelectron spectroscopy studies of the anodic oxidation of plasma silicon nitride. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1991, 9, 2285-2288.	2.1	0
63	Influence of aluminium incorporation on the structure of ZrN films deposited at low temperatures. Journal Physics D: Applied Physics, 2010, 43, 209801-209801.	2.8	0
64	Protective Coatings for Optical Systems. , 1994, , 523-551.		0
65	Diamond nuclei formation in a microwave plasma assisted chemical vapor deposition (MWCVD) system. European Physical Journal Special Topics, 1999, 09, Pr8-1029-Pr8-1034.	0.2	0