

Joan Esteve

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118
papers

2,946
citations

33
h-index

47
g-index

120
ext. papers

3,090
ext. citations

3.7
avg, IF

4.6
L-index

#	Paper	IF	Citations
118	Mechanical properties of calcium phosphate coatings deposited by laser ablation. <i>Biomaterials</i> , 2000 , 21, 967-71	15.6	103
117	Mechanical properties of nanocomposite and multilayered CrSiN sputtered thin films. <i>Surface and Coatings Technology</i> , 2004 , 180-181, 570-574	4.4	101
116	Improvement of hardness in plasma polymerized hexamethyldisiloxane coatings by silica-like surface modification. <i>Thin Solid Films</i> , 2000 , 377-378, 109-114	2.2	89
115	Wear behavior of nanometric CrN/Cr multilayers. <i>Surface and Coatings Technology</i> , 2003 , 163-164, 571-574	4.4	82
114	Micromechanical properties of silica aerogels. <i>Applied Physics Letters</i> , 1999 , 75, 653-655	3.4	82
113	CrAlN coatings deposited by cathodic arc evaporation at different substrate bias. <i>Thin Solid Films</i> , 2006 , 515, 113-117	2.2	80
112	Tungsten carbide/diamond-like carbon multilayer coatings on steel for tribological applications. <i>Surface and Coatings Technology</i> , 2001 , 148, 277-283	4.4	75
111	Multilayered chromium/chromium nitride coatings for use in pressure die-casting. <i>Surface and Coatings Technology</i> , 2001 , 146-147, 268-273	4.4	69
110	Boron carbide thin films deposited by tuned-substrate RF magnetron sputtering. <i>Diamond and Related Materials</i> , 1999 , 8, 402-405	3.5	69
109	Nanoindentation stress-strain curves as a method for thin-film complete mechanical characterization: application to nanometric CrN/Cr multilayer coatings. <i>Applied Physics A: Materials Science and Processing</i> , 2003 , 77, 419-426	2.6	68
108	Influence of thickness on the properties of hydroxyapatite coatings deposited by KrF laser ablation. <i>Biomaterials</i> , 2001 , 22, 2171-5	15.6	66
107	Study of the mechanical properties of tetrahedral amorphous carbon films by nanoindentation and nanowear measurements. <i>Diamond and Related Materials</i> , 2001 , 10, 145-152	3.5	56
106	Internal stress and strain in heavily boron-doped diamond films grown by microwave plasma and hot filament chemical vapor deposition. <i>Journal of Applied Physics</i> , 1996 , 80, 1846-1850	2.5	56
105	Cathodic chromium carbide coatings for molding die applications. <i>Surface and Coatings Technology</i> , 2004 , 188-189, 506-510	4.4	55
104	Preparation of B ₂ C ₃ N thin films by r.f. plasma assisted CVD. <i>Diamond and Related Materials</i> , 1998 , 7, 376-379	3.3	53
103	Optical properties of vacuum-evaporated CdTe thin films. <i>Thin Solid Films</i> , 1984 , 120, 23-30	2.2	53
102	High-vacuum versus Environmental Electron beam deposition. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1996 , 14, 2609		52

101	Study of magnetic and structural properties of ferrofluids based on cobalt/zinc ferrite nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2012 , 324, 394-402	2.8	51
100	Nanometric chromium/chromium carbide multilayers for tribological applications. <i>Surface and Coatings Technology</i> , 2003 , 163-164, 392-397	4.4	48
99	BCN thin films near the B ₄ C composition deposited by radio frequency magnetron sputtering. <i>Diamond and Related Materials</i> , 2000 , 9, 502-505	3.5	48
98	Mechanical and tribological properties of tungsten carbide sputtered coatings. <i>Thin Solid Films</i> , 2000 , 373, 282-286	2.2	46
97	Electron tunneling in heavily In-doped polycrystalline CdS films. <i>Journal of Applied Physics</i> , 1984 , 56, 1738-1743	3.4	46
96	Period dependence of hardness and microstructure on nanometric Cr/CrN multilayers. <i>Surface and Coatings Technology</i> , 2004 , 188-189, 338-343	4.4	42
95	Pulsed laser deposition of diamond from graphite targets. <i>Applied Physics Letters</i> , 1995 , 67, 485-487	3.4	42
94	Improvement of mechanical and tribological properties in steel surfaces by using titanium/aluminum/titanium/aluminum nitride multilayered system. <i>Applied Surface Science</i> , 2012 , 258, 3805-3814	6.7	41
93	Trimethylboron doping of CVD diamond thin films. <i>Diamond and Related Materials</i> , 1994 , 3, 628-631	3.5	41
92	Nanometric chromium nitride/chromium carbide multilayers by r.f. magnetron sputtering. <i>Surface and Coatings Technology</i> , 2004 , 180-181, 335-340	4.4	38
91	Mechanical properties of plasma deposited polymer coatings. <i>Surface and Coatings Technology</i> , 2000 , 125, 383-387	4.4	37
90	Synthesis of cubic aluminum nitride by carbothermal nitridation reaction. <i>Diamond and Related Materials</i> , 1999 , 8, 1342-1344	3.5	35
89	Micromechanical properties of BN and B ₄ C coatings obtained by r.f. plasma-assisted CVD. <i>Diamond and Related Materials</i> , 1999 , 8, 423-427	3.5	35
88	Micromechanical and microtribological properties of BCN thin films near the B ₄ C composition deposited by r.f. magnetron sputtering. <i>Diamond and Related Materials</i> , 2001 , 10, 1892-1896	3.5	34
87	Real time controlled rf reactor for deposition of a-Si:H thin films. <i>Vacuum</i> , 1989 , 39, 795-798	3.7	34
86	Tribological performance of TiN supported molybdenum and tantalum carbide coatings in abrasion and sliding contact. <i>Wear</i> , 2002 , 253, 1182-1187	3.5	33
85	Effects of carbon incorporation in tungsten carbide films deposited by r.f. magnetron sputtering: single layers and multilayers. <i>Surface and Coatings Technology</i> , 2003 , 163-164, 386-391	4.4	33
84	Optical properties of co-evaporated CuInSe ₂ thin films. <i>Journal Physics D: Applied Physics</i> , 1986 , 19, 127-136	3.6	33

83	Influence of electrical discharge machining on the sliding contact response of cemented carbides. <i>International Journal of Refractory Metals and Hard Materials</i> , 2001 , 19, 35-40	4.1	32
82	Enhanced reactivity of high-index surface platinum hollow nanocrystals. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 200-208	13	30
81	Ellipsometric study of diamond-like thin films. <i>Surface and Coatings Technology</i> , 1991 , 47, 263-268	4.4	26
80	Developing plating baths for the production of reflective NiCu films. <i>Electrochimica Acta</i> , 2012 , 62, 381-389	3.7	25
79	Effect of the bias voltage on the structure of nc-CrC/a-C:H coatings with high carbon content. <i>Surface and Coatings Technology</i> , 2012 , 206, 2877-2883	4.4	25
78	Preparation and nanoscale mechanical properties of self-assembled carboxylic acid functionalized pentathiophene on mica. <i>Langmuir</i> , 2004 , 20, 7703-10	4	24
77	Diamond and diamond-like carbon films. <i>Vacuum</i> , 1999 , 52, 133-139	3.7	22
76	Mechanical strength improvement of electrical discharge machined cemented carbides through PVD (TiN, TiAlN) coatings. <i>Thin Solid Films</i> , 2004 , 447-448, 258-263	2.2	21
75	Substrate temperature effects on the microhardness and adhesion of diamond-like thin films. <i>Diamond and Related Materials</i> , 1999 , 8, 563-566	3.5	21
74	Plasma deposition of hydrogenated amorphous carbon (a-C:H) under a wide bias potential range. <i>Surface and Coatings Technology</i> , 1991 , 47, 89-97	4.4	21
73	Crystalline properties of co-evaporated CuInSe ₂ thin films. <i>Thin Solid Films</i> , 1985 , 130, 155-164	2.2	21
72	Substrate surface finish effects on scratch resistance and failure mechanisms of TiN-coated hardmetals. <i>Surface and Coatings Technology</i> , 2015 , 265, 174-184	4.4	20
71	Nucleation and initial growth of bias-assisted HFCVD diamond on boron nitride films. <i>Diamond and Related Materials</i> , 1997 , 6, 579-583	3.5	20
70	Influence of deposition pressure on the structural mechanical and decorative properties of TiN thin films deposited by cathodic arc evaporation. <i>Vacuum</i> , 2007 , 81, 1507-1510	3.7	20
69	Surface treatment of titanium by Nd:YAG laser irradiation in the presence of nitrogen. <i>Applied Physics A: Materials Science and Processing</i> , 1999 , 69, S699-S702	2.6	20
68	Influence of the microstructure on the thermal shock behavior of cemented carbides. <i>Ceramics International</i> , 2016 , 42, 12701-12708	5.1	20
67	Growth vs. nucleation of conducting polymers thin films obtained by plasma-enhanced chemical vapor deposition. <i>Thin Solid Films</i> , 2004 , 451-452, 74-80	2.2	19
66	Amorphous Si ₆ C ₁₈ films: an example of materials presenting low indentation hardness and high wear resistance. <i>Diamond and Related Materials</i> , 2001 , 10, 1053-1057	3.5	19

65	Atomic force microscopy observation of the first stages of diamond growth on silicon. <i>Diamond and Related Materials</i> , 1996 , 5, 592-597	3.5	19
64	Nucleation and initial growth of diamond by biased hot filament chemical vapour deposition. <i>Applied Physics A: Materials Science and Processing</i> , 1997 , 65, 241-249	2.6	18
63	Micromechanical properties of carbon-silica aerogel composites. <i>Applied Physics A: Materials Science and Processing</i> , 2002 , 74, 119-122	2.6	18
62	Effect of ion bombardment on the properties of B4C thin films deposited by RF sputtering. <i>Thin Solid Films</i> , 1999 , 355-356, 210-213	2.2	18
61	Hardness and morphological characterization of tungsten carbide thin films. <i>Surface and Coatings Technology</i> , 1998 , 108-109, 323-327	4.4	17
60	Piezoresistivity of p-type heteroepitaxial diamond films on Si(100). <i>Diamond and Related Materials</i> , 1998 , 7, 528-532	3.5	17
59	Tribological performance of chromium/chromium carbide multilayers deposited by r.f. magnetron sputtering. <i>Surface and Coatings Technology</i> , 2005 , 200, 1819-1824	4.4	17
58	Mechanism of diamond nucleation enhancement by electron emission via hot filament chemical vapor deposition. <i>Diamond and Related Materials</i> , 1999 , 8, 123-126	3.5	17
57	Analysis of contamination in diamond films by secondary ion mass spectroscopy. <i>Diamond and Related Materials</i> , 1992 , 1, 500-503	3.5	17
56	Electrical properties of polycrystalline In-doped CdS thin films. <i>Journal Physics D: Applied Physics</i> , 1984 , 17, 1679-1685	3	17
55	Dependence of transport parameters on thickness in polycrystalline CdS thin films. <i>Thin Solid Films</i> , 1985 , 123, 297-306	2.2	17
54	Comparative study of high corrosion resistant TiC _x N _{1-x} and TiN hard coatings. <i>Surface and Coatings Technology</i> , 1994 , 68-69, 536-540	4.4	16
53	Electrical conductivity of polycrystalline CuInSe ₂ thin films. <i>Journal Physics D: Applied Physics</i> , 1984 , 17, 2423-2427	3	16
52	Characterization of hydroxyapatite laser ablation plumes by fast intensified CCD-imaging. <i>Journal of Materials Research</i> , 1995 , 10, 473-478	2.5	15
51	Carbon nitride thin films obtained by laser ablation of graphite in a nitrogen plasma. <i>Applied Surface Science</i> , 1996 , 96-98, 870-873	6.7	15
50	Structural modeling of the possible growth of oriented textured single-crystal diamond film on a silicon (111) surface. <i>Applied Physics Letters</i> , 1996 , 69, 1086-1088	3.4	15
49	Ultra low nanowear in novel chromium/amorphous chromium carbide nanocomposite films. <i>Applied Surface Science</i> , 2017 , 420, 707-713	6.7	14
48	MECHANICAL AND TRIBOLOGICAL BEHAVIOR OF VN AND HfN FILMS DEPOSITED VIA REACTIVE MAGNETRON SPUTTERING. <i>Surface Review and Letters</i> , 2013 , 20, 1350040	1.1	14

47	Enhancement of surface mechanical properties by using TiN[BCN/BN] _n /c-BN multilayer system. <i>Applied Surface Science</i> , 2010 , 257, 1098-1104	6.7	14
46	Mechanical strengthening in nanometric CrN/Cr multilayers measured by nanoindentation. <i>Journal Physics D: Applied Physics</i> , 2002 , 35, 1880-1883	3	14
45	Nucleation of diamond on silicon by biased HFCVD: A comparative study. <i>Diamond and Related Materials</i> , 1998 , 7, 200-204	3.5	14
44	Interfacial layer effects in the growth of CVD diamond. <i>Diamond and Related Materials</i> , 1994 , 3, 492-494	3.5	14
43	Microtribological characterization of group V and VI metal-carbide wear-resistant coatings effective in the metal casting industry. <i>Surface and Coatings Technology</i> , 2000 , 133-134, 314-318	4.4	13
42	Analysis of diamond nucleation on molybdenum by biased hot filament chemical vapor deposition. <i>Diamond and Related Materials</i> , 2001 , 10, 383-387	3.5	13
41	Growth of diamond by laser ablation of graphite. <i>Diamond and Related Materials</i> , 1995 , 4, 780-783	3.5	13
40	Boron incorporation effects in CVD diamond film growth. <i>Vacuum</i> , 1994 , 45, 1013-1014	3.7	12
39	Surface reflectivity of TiN thin films measured by spectral ellipsometry. <i>Surface Science</i> , 1991 , 251-252, 200-203	1.8	12
38	Growth of diamond films on boron nitride thin films by bias-assisted hot filament chemical vapor deposition. <i>Applied Physics Letters</i> , 1997 , 70, 1682-1684	3.4	11
37	Surface analysis of nanostructured ceramic coatings containing silicon carbide nanoparticles produced by plasma modulation chemical vapour deposition. <i>Thin Solid Films</i> , 2000 , 377-378, 495-500	2.2	11
36	Structure characterization of plasma-deposited TiN coatings. <i>Surface and Coatings Technology</i> , 1991 , 45, 67-72	4.4	11
35	Corrosion surface protection by using titanium carbon nitride/titanium niobium carbon nitride multilayered system. <i>Thin Solid Films</i> , 2011 , 519, 6362-6368	2.2	10
34	Surface and optical analysis of SiC _x films prepared by RF-RMS technique. <i>Diamond and Related Materials</i> , 2006 , 15, 71-79	3.5	10
33	Filament discharge plasma of argon with electrostatic confinement. <i>Journal Physics D: Applied Physics</i> , 1985 , 18, 1339-1345	3	10
32	Nanoindentation hardness measurements using real-shape indenters: application to extremely hard and elastic materials. <i>Applied Physics A: Materials Science and Processing</i> , 2001 , 72, 319-324	2.6	9
31	Product analysis from D ₂ O electrolysis with Pd and Ti cathodes. <i>Electrochimica Acta</i> , 1992 , 37, 215-219	6.7	9
30	YSZ protective coatings elaborated by MOCVD on nickel-based alloys. <i>Surface and Coatings Technology</i> , 1998 , 100-101, 164-168	4.4	8

29	Evolution of the plumes produced by laser ablation of a carbon target. <i>Diamond and Related Materials</i> , 1995 , 4, 337-341	3.5	8
28	Control of the bias voltage in d.c. PVD processes on insulator substrates. <i>Vacuum</i> , 2009 , 83, 1287-1290	3.7	7
27	Comparative study of trimethylboron doping of hot filament chemically vapour deposited and microwave plasma chemically vapour deposited diamond films. <i>Thin Solid Films</i> , 1994 , 253, 136-140	2.2	6
26	Hydrogen related effects in a-Si:H studied by photothermal deflection spectroscopy. <i>Physica B: Condensed Matter</i> , 1991 , 170, 269-272	2.8	6
25	Temperature dependence of intergrain barriers in polycrystalline In-doped CdS films. <i>Solid-State Electronics</i> , 1985 , 28, 1019-1023	1.7	6
24	Indium thin films on metal-coated substrates. <i>Thin Solid Films</i> , 1985 , 129, 103-109	2.2	6
23	Exploring New Synthetic Strategies for the Production of Advanced Complex Inorganic Nanocrystals. <i>Zeitschrift Fur Physikalische Chemie</i> , 2015 , 229,	3.1	5
22	Properties of a-C:H films deposited from a methane electron cyclotron wave resonant plasma. <i>Current Applied Physics</i> , 2003 , 3, 433-437	2.6	5
21	CVD diamond films on bio-medical ceramics. <i>Diamond and Related Materials</i> , 1995 , 4, 798-801	3.5	5
20	Spectroscopic ellipsometry measurements of the diamond-crystalline Si interface in chemically vapour-deposited polycrystalline diamond films. <i>Diamond and Related Materials</i> , 1993 , 2, 728-731	3.5	5
19	Effect of methane/hydrogen dilution on the properties of hydrogenated amorphous carbon films deposited by RF-plasma. <i>Diamond and Related Materials</i> , 1992 , 1, 538-542	3.5	5
18	Distribution of electron energy in an electrostatically confined silane plasma. <i>Journal of Applied Physics</i> , 1988 , 63, 1230-1232	2.5	5
17	Improvement of the Electrochemical Behavior of Steel Surfaces Using a [Ti-Al/Ti-Al-N] n Multilayer System. <i>Journal of Materials Engineering and Performance</i> , 2013 , 22, 1471-1480	1.6	4
16	Combined Roles of Ion Bombardment and Electron Emission in Bias-Enhanced Diamond Nucleation on Silicon by Hot Filament Chemical Vapour Deposition. <i>Physica Status Solidi A</i> , 1997 , 161, R3-R4		4
15	Diamond coatings on electrical-discharge machined hardmetals. <i>Diamond and Related Materials</i> , 2003 , 12, 762-767	3.5	4
14	Laser wavelength dependence of YBa ₂ Cu ₃ O _y laser ablation plumes. <i>Applied Surface Science</i> , 1995 , 86, 59-63	6.7	4
13	Structural characterization of a-SiC:H by thermal desorption spectroscopy. <i>Applied Surface Science</i> , 1993 , 70-71, 768-771	6.7	4
12	Electrostatic confinement effects on a hot cathode DC glow discharge in silane. <i>Journal Physics D: Applied Physics</i> , 1987 , 20, 1479-1483	3	3

11	Glow discharge deposited a-Si:H,Al thin films. <i>Solar Energy Materials and Solar Cells</i> , 1987 , 15, 167-173		3
10	Rheotaxial growth on indium thin films. <i>Thin Solid Films</i> , 1984 , 113, L21-L23	2.2	3
9	Rheotaxial growth of CuInSe ₂ thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1987 , 5, 169-173	2.9	2
8	Hydrogenated amorphous silicon films obtained by a low pressure dc glow discharge. <i>Applied Physics A: Solids and Surfaces</i> , 1988 , 46, 207-213		2
7	Indium liquid films on glass substrates. <i>Thin Solid Films</i> , 1983 , 103, L51-L54	2.2	2
6	Low Wear and Low Friction DLC Coating With Good Adhesion to CoCrMo Metal Substrates. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1800225	1.3	2
5	Protective coatings for Al metallizations obtained by plasma polymerization 2000 ,		1
4	Step-by-step simulations of diamond nucleation and growth on a silicon (001) surface. <i>Diamond and Related Materials</i> , 2000 , 9, 146-155	3.5	1
3	Plasma polymer thin films obtained by plasma polymerization of pyrrole. <i>European Physical Journal Special Topics</i> , 1999 , 09, Pr8-461-Pr8-469		1
2	Microstructural analysis of CAPD Ti(C,N) hard coatings. <i>Vacuum</i> , 1994 , 45, 1001-1002	3.7	
1	Deposition of amorphous silicon films from an electrostatically confined silane plasma. <i>Vacuum</i> , 1987 , 37, 443-444	3.7	