Ramon Escobar Galindo

List of Publications by Year
in descending order

109	2,128	218677	289244
papers	citations	26 h-index	40 g-index

113	113	113	2574
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis and Characterisation of ASA-PEEK Composites for Fused Filament Fabrication. Polymers, 2022, 14, 496.	4.5	4
2	Tailoring Crystalline Structure of Titanium Oxide Films for Optical Applications Using Non-Biased Filtered Cathodic Vacuum Arc Deposition at Room Temperature. Coatings, 2021, 11, 233.	2.6	3
3	Comprehensive microstructural and optical characterization of the thermal stability of aluminum-titanium oxynitride thin films after high temperature annealing in air. Emergent Materials, 2021, 4, 1559-1568.	5.7	0
4	Solar selective coatings and materials for high-temperature solar thermal applications. , 2021, , 383-427.		3
5	High-temperature solar-selective coatings based on Cr(Al)N. Part 2: Design, spectral properties and thermal stability of multilayer stacks. Solar Energy Materials and Solar Cells, 2020, 218, 110812.	6.2	6
6	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
7	Transparent conductive tantalum doped tin oxide as selectively solar-transmitting coating for high temperature solar thermal applications. Solar Energy Materials and Solar Cells, 2019, 196, 84-93.	6.2	19
8	Design of high-temperature solar-selective coatings based on aluminium titanium oxynitrides AlyTi1â^'y(OxN1â^'x). Part 1: Advanced microstructural characterization and optical simulation. Solar Energy Materials and Solar Cells, 2018, 176, 81-92.	6.2	28
9	Optical and electrical properties of the transparent conductor SrVO3 without long-range crystalline order. Applied Physics Letters, 2018, 112, .	3.3	22
10	On the Effect of Thin Film Growth Mechanisms on the Specular Reflectance of Aluminium Thin Films Deposited via Filtered Cathodic Vacuum Arc. Coatings, 2018, 8, 321.	2.6	7
11	Cluster Tool for In Situ Processing and Comprehensive Characterization of Thin Films at High Temperatures. Analytical Chemistry, 2018, 90, 7837-7842.	6.5	5
12	Design of high-temperature solar-selective coatings based on aluminium titanium oxynitrides AlyTi1-y(OxN1-x). Part 2: Experimental validation and durability tests at high temperature. Solar Energy Materials and Solar Cells, 2018, 185, 183-191.	6.2	20
13	Aperiodic Metalâ€Dielectric Multilayers as Highly Efficient Sunlight Reflectors. Advanced Optical Materials, 2017, 5, 1600833.	7.3	10
14	Formation of antireflection Zn/ZnO coreâ€“shell nano-pyramidal arrays by O₂⁺ ion bombardment of Zn surfaces. Nanoscale, 2017, 9, 14201-14207.	5.6	11
15	Highâ€Rate Deposition of Stoichiometric Compounds by Reactive Magnetron Sputtering at Oblique Angles. Plasma Processes and Polymers, 2016, 13, 960-964.	3.0	10
16	Advanced characterization and optical simulation for the design of solar selective coatings based on carbon: transition metal carbide nanocomposites. Solar Energy Materials and Solar Cells, 2016, 157, 580-590.	6.2	14
17	Stoichiometric Control of SiO_x Thin Films Grown by Reactive Magnetron Sputtering at Oblique Angles. Plasma Processes and Polymers, 2016, 13, 1242-1248.	3.0	7
18	Ag-N dual acceptor doped p-type ZnO thin films by DC reactive magnetron co-sputtering. Materials Letters, 2016, 181, 12-15.	2.6	12

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19	Influence of excesses of volatile elements on structure and composition of solution derived lead-free (Bi 0.50 Na 0.50) 1x Ba x TiO 3 thin films. Journal of the European Ceramic Society, 2016, 36, 89-100.	5.7	8
20	Silver activation on thin films of Agâ€“ZrCN coatings for antimicrobial activity. Materials Science and Engineering C, 2015, 55, 547-555.	7.3	38
21	Room temperature deposition of highly dense TiO2thin films by filtered cathodic vacuum arc. , 2015, , .		0
22	Importance of the spectral emissivity measurements at working temperature to determine the efficiency of a solar selective coating. Solar Energy Materials and Solar Cells, 2015, 140, 249-252.	6.2	28
23	Electrochemical vs antibacterial characterization of ZrCNâ€“Ag coatings. Surface and Coatings Technology, 2015, 275, 357-362.	4.8	7
24	Determination of the Optical Constants of Gold Nanoparticles from Thin-Film Spectra. Journal of Physical Chemistry C, 2015, 119, 9450-9459.	3.1	14
25	Role of Y in the oxidation resistance of CrAlYN coatings. Applied Surface Science, 2015, 353, 504-511.	6.1	27
26	Solar selective coatings based on carbon: transition metal nanocomposites. , 2015, , .		0
27	Silver surface segregation in Ag-DLC nanocomposite coatings. Surface and Coatings Technology, 2015, 267, 90-97.	4.8	42
28	Evaluation of the optoelectronic properties and corrosion behavior of Al₂O₃-doped ZnO films prepared by dc pulsed magnetron sputtering. Journal Physics D: Applied Physics, 2014, 47, 485501.	2.8	3
29	Influence of culture media on the physical and chemical properties of Agâ€“TiCN coatings. Journal Physics D: Applied Physics, 2014, 47, 335401.	2.8	3
30	Structural and optical characterization of nanostructured ZnO grown on alumina templates. Materials Research Express, 2014, 1, 045028.	1.6	5
31	Comprehensive Environmental Testing of Optical Properties in Thin Films. Procedia CIRP, 2014, 22, 271-276.	1.9	1
32	Morphotropic Phase Boundary in Solutionâ€Derived (<scp><scp>Bi</scp></scp>_{0.5}<scp><scp>Na</scp></scp>_{0.5})_{1â^'x}<scp><scp>Ba</scp> Thin Films: Part I Crystalline Structure and Compositional Depth Profile. Journal of the American Ceramic Society, 2014, 97, 1269-1275.	3.8	7
33	Optical properties and refractive index sensitivity of reactive sputtered oxide coatings with embedded Au clusters. Journal of Applied Physics, 2014, 115, 063512.	2.5	19
34	Long-term high temperature oxidation of CrAl(Y)N coatings in steam atmosphere. Corrosion Science, 2014, 80, 453-460.	6.6	24
35	Comparative Study of Micro- and Nano-structured Coatings for High-Temperature Oxidation in Steam Atmospheres. Oxidation of Metals, 2014, 81, 227-236.	2.1	6
36	Novel Moâ€“Si3N4 based selective coating for high temperature concentrating solar power applications. Solar Energy Materials and Solar Cells, 2014, 122, 217-225.	6.2	100

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37	Dynamics of GDOES-induced surface roughening in metal interfaces. Analytical and Bioanalytical Chemistry, 2014, 406, 7483-7495.	3.7	6
38	Mechanisms of Oxidation of NdNiO_{3â^Î´} Thermochromic Thin Films Synthesized by a Two-Step Method in Soft Conditions. Journal of Physical Chemistry C, 2014, 118, 5908-5917.	3.1	15
39	Influence of the IR-mirror layer composition in the mechanical properties of solar selective coatings made from Mo:Si3N4 cermet. Thin Solid Films, 2014, 571, 316-320.	1.8	2
40	Evolution of the crystalline structure in (Bi_{0.5}Na_{0.5})_{1-x}Ba_xTiO<sub>3</su thin films around the Morphotropic Phase Boundary. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2014, 53, 21-26.	1.9	1
41	Advanced surface characterization of silver nanocluster segregation in Agâ€“TiCN bioactive coatings by RBS, GDOES, and ARXPS. Analytical and Bioanalytical Chemistry, 2013, 405, 6259-6269.	3.7	22
42	First spectral emissivity study of a solar selective coating in the 150â€“600Â°C temperature range. Solar Energy Materials and Solar Cells, 2013, 117, 390-395.	6.2	31
43	Ag+ release and corrosion behavior of zirconium carbonitride coatings with silver nanoparticles for biomedical devices. Surface and Coatings Technology, 2013, 222, 104-111.	4.8	21
44	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
45	<I>A Special Issue on</I> Advances in Solar Selective Nanostructures and Thin Films. Nanoscience and Nanotechnology Letters, 2013, 5, 1-2.	0.4	32
46	High- and low-energy x-ray photoelectron techniques for compositional depth profiles: destructive versus non-destructive methods. Journal Physics D: Applied Physics, 2013, 46, 065310.	2.8	10
47	Ag⁺release inhibition from ZrCNâ€“Ag coatings by surface agglomeration mechanism: structural characterization. Journal Physics D: Applied Physics, 2013, 46, 325303.	2.8	55
48	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
49	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
50	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
51	Influence of silver content on the tribomechanical behavior on Ag-TiCN bioactive coatings. Surface and Coatings Technology, 2012, 206, 2192-2198.	4.8	46
52	Structural and mechanical properties of Au alloyed AlO sputter deposited coatings. Surface and Coatings Technology, 2012, 206, 2740-2745.	4.8	12
53	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
54	Surface characterization of Ti-Si-C-ON coatings for orthopedic devices: XPS and Raman spectroscopy. Solid State Sciences, 2011, 13, 95-100.	3.2	13

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55	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
56	Influence of the nanoscale structural features on the properties and electronic structure of Al-doped ZnO thin films: An X-ray absorption study. Solar Energy Materials and Solar Cells, 2011, 95, 2341-2346.	6.2	35
57	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
58	Agâ€“Ti(C, N)-based coatings for biomedical applications: influence of silver content on the structural properties. Journal Physics D: Applied Physics, 2011, 44, 375501.	2.8	42
59	Diffusion model for growth of Fe₂B layer in pure iron. Surface Engineering, 2011, 27, 189-195.	2.2	52
60	Towards nanometric resolution in multilayer depth profiling: a comparative study of RBS, SIMS, XPS and GDOES. Analytical and Bioanalytical Chemistry, 2010, 396, 2725-2740.	3.7	79
61	Improving the oxidation resistance of AlCrN coatings by tailoring chromium out-diffusion. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2010, 65, 950-958.	2.9	26
62	Influence of the surface morphology and microstructure on the biological properties of Tiâ€“Siâ€“Câ€“Nâ€“O coatings. Thin Solid Films, 2010, 518, 5694-5699.	1.8	11
63	Correlation between structure and optical properties in low emissivity coatings for solar thermal collectors. Thin Solid Films, 2010, 518, 5720-5723.	1.8	29
64	Structureâ€“property relations in ZrCN coatings for tribological applications. Surface and Coatings Technology, 2010, 205, 2134-2141.	4.8	65
65	Characterization of AISI 4140 borided steels. Applied Surface Science, 2010, 256, 2372-2379.	6.1	72
66	Optical and transport properties of Tiâ€doped In₂O₃ thin films prepared by electron beam physical vapour deposition. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 1549-1553.	1.8	5
67	Beneficial silver: antibacterial nanocomposite Ag-DLC coating to reduce osteolysis of orthopaedic implants. Journal of Physics: Conference Series, 2010, 252, 012005.	0.4	6
68	Molybdenum Interlayers for Nucleation Enhancement in Diamond CVD Growth. Journal of Nanoscience and Nanotechnology, 2010, 10, 2885-2891.	0.9	7
69	Impact of the particles impingement on the electronic conductivity of Al doped ZnO films grown by reactive magnetron sputtering. IOP Conference Series: Materials Science and Engineering, 2010, 12, 012006.	0.6	0
70	Comparative depth-profiling analysis of nanometer-metal multilayers by ion-probing techniques. TrAC - Trends in Analytical Chemistry, 2009, 28, 494-505.	11.4	51
71	Oxidation post-treatment of hard AlTiN coating for machining of hardened steels. Surface and Coatings Technology, 2009, 204, 256-262.	4.8	24
72	Determination of Boron Diffusion Coefficients in Borided Tool Steels. Defect and Diffusion Forum, 2009, 283-286, 681-686.	0.4	7

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73	XRD and FTIR analysis of Tiâ€“Siâ€“Câ€“ON coatings for biomedical applications. Surface and Coatings Technology, 2008, 203, 490-494.	4.8	31
74	Hydrogen and oxygen in-depth evolution during electrochemical hydrogenation/dehydrogenation of Yâ€“Pd thin films analyzed by Glow Discharge Optical Emission Spectroscopy. Thin Solid Films, 2008, 516, 6524-6530.	1.8	2
75	Modelling of Glow Discharge Optical Emission Spectroscopy depth profiles of metal (Cr,Ti) multilayer coatings. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2008, 63, 422-430.	2.9	10
76	Structural and Mechanical properties of Tiâ€“Siâ€“Câ€“ON for biomedical applications. Surface and Coatings Technology, 2008, 202, 2403-2407.	4.8	8
77	Structure and properties of silver-containing a-C(H) films deposited by plasma immersion ion implantation. Surface and Coatings Technology, 2008, 202, 3675-3682.	4.8	87
78	Characterization of rough interfaces obtained by boriding. Applied Surface Science, 2008, 255, 2596-2602.	6.1	10
79	Reply to â€˜Comment on â€œCalibration of nitrogen content for GDOES depth profiling of complex nitride coatingsâ€â€™ by V. Hoffmann, J. Anal. At. Spectrom., 2008, 23, DOI: 10.1039/b713743p. Journal of Analytical Atomic Spectrometry, 2008, 23, 593.	3.0	0
80	Influence of spacer layer morphology on the exchange-bias properties of reactively sputtered<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Co</mml:mi><mml:mo>â^•</mml:mo><mml:mi mathvariant="normal">Ag</mml:mi></mml:mrow></mml:math>multilayers. Physical Review B, 2007, 76, .	3.2	24
81	Calibration of nitrogen content for GDOES depth profiling of complex nitride coatings. Journal of Analytical Atomic Spectrometry, 2007, 22, 1512.	3.0	15
82	Oxidation tuning in AlCrN coatings. Surface and Coatings Technology, 2007, 201, 4505-4511.	4.8	95
83	Wear resistance of titaniumâ€“aluminiumâ€“chromiumâ€“nitride nanocomposite thin films. Vacuum, 2007, 81, 1453-1456.	3.5	23
84	Influence of the yttria content on the mechanical properties of Y2O3-ZrO2 thin films prepared by EB-PVD. Vacuum, 2007, 81, 1457-1461.	3.5	10
85	Nanometric resolution in glow discharge optical emission spectroscopy and Rutherford backscattering spectrometry depth profiling of metal (Cr, Al) nitride multilayers. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2006, 61, 545-553.	2.9	15
86	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
87	Compositional depth profiling analysis of thin and ultrathin multilayer coatings by radio-frequency glow discharge optical emission spectroscopy. Surface and Coatings Technology, 2006, 200, 6185-6189.	4.8	19
88	Biocompatible Silver-containing a-C:H and a-C coatings: A Comparative Study. Materials Research Society Symposia Proceedings, 2006, 950, 1.	0.1	3
89	Bi-magnetic microwires: a novel family of materials with controlled magnetic behavior. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 68-73.	2.3	27
90	A modified blister test to study the adhesion of thin coatings based on local helium ion implantation. Thin Solid Films, 2005, 471, 170-176.	1.8	26

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91	Interface detection in poly-ethylene terephthalateâ€“metal laminates using variable energy positron annihilation. Thin Solid Films, 2005, 478, 338-344.	1.8	1
92	Adhesion behaviour of CrNx coatings on pre-treated metal substrates studied in situ by PBA and ESEM after annealing. Surface and Coatings Technology, 2005, 199, 57-65.	4.8	6
93	Interfacial effects during the analysis of multilayer metal coatings by radio-frequency glow discharge optical emission spectroscopy : Part 2. Evaluation of depth resolution function and application to thin multilayer coatings. Journal of Analytical Atomic Spectrometry, 2005, 20, 1116.	3.0	17
94	Interfacial effects during the analysis of multilayer metal coatings by radio-frequency glow discharge optical emission spectroscopy : Part 1. Crater shape and sputtering rate effects. Journal of Analytical Atomic Spectrometry, 2005, 20, 1108.	3.0	26
95	Protrusion formation and surface porosity development on thermally annealed helium implanted copper. Nuclear Instruments & Methods in Physics Research B, 2004, 217, 262-275.	1.4	31
96	A description of bubble growth and gas release during thermal annealing of helium implanted copper. Nuclear Instruments & Methods in Physics Research B, 2004, 217, 276-280.	1.4	24
97	Hybrid organic inorganic nylon-6/SiO2nanocomposites: Transport properties. Polymer Engineering and Science, 2004, 44, 1240-1246.	3.1	36
98	Thermally induced delamination of amorphous hydrogenated carbon coatings monitored by positron beam analysis. Surface and Coatings Technology, 2004, 180-181, 207-212.	4.8	1
99	Stress reduction in a-C:H coatings through the addition of nitrogen to the feed gas. Diamond and Related Materials, 2004, 13, 1645-1657.	3.9	8
100	Nano-porosity in silica reinforced methyltrimethoxysilane coatings studied by positron beam analysis. Composites Science and Technology, 2003, 63, 1133-1139.	7.8	1
101	Depth-selective 2D-ACAR studies on low-k dielectric thin films. Radiation Physics and Chemistry, 2003, 68, 357-362.	2.8	8
102	Positron beam analysis of structurally ordered porosity in mesoporous silica thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 102, 2-7.	3.5	9
103	Systematic positron study of hydrophilicity of the internal pore surface in ordered low-k silica thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2003, 102, 403-408.	3.5	7
104	Structural effects due to the incorporation of Ar atoms in the lattice of ZrO2 thin films prepared by ion beam assisted deposition. Nuclear Instruments & Methods in Physics Research B, 2002, 194, 333-345.	1.4	7
105	The design of an electrostatic variable energy positron beam for studies of defects in ceramic coatings and polymer films. Applied Surface Science, 2002, 194, 47-51.	6.1	2
106	In situ mechanical, temperature and gas exposure treatments of materials combined with variable energy positron beam techniques. Applied Surface Science, 2002, 194, 239-244.	6.1	5
107	Positronium formation in NaY-zeolites studied by lifetime, positron beam Doppler broadening and 3-gamma detection techniques. Radiation Physics and Chemistry, 2000, 58, 715-718.	2.8	5
108	Study of polymer/metal coating under stress using positron annihilation spectroscopy. Acta Materialia, 2000, 48, 4743-4747.	7.9	6

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109	Properties and Characterization of Hard Coatings Obtained by Boriding: An Overview. Defect and Diffusion Forum, 0, 297-301, 1284-1289.	0.4	19