

Ricardo Serra

List of Publications by Year in descending order

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32
papers

1,666
citations

687220

13
h-index

454834

30
g-index

32
all docs

32
docs citations

32
times ranked

1208
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanostructured sol-gel coatings doped with cerium nitrate as pre-treatments for AA2024-T3. <i>Electrochimica Acta</i> , 2005, 51, 208-217.	2.6	498
2	Nanoporous titania interlayer as reservoir of corrosion inhibitors for coatings with self-healing ability. <i>Progress in Organic Coatings</i> , 2007, 58, 127-135.	1.9	280
3	Corrosion protective properties of nanostructured sol-gel hybrid coatings to AA2024-T3. <i>Surface and Coatings Technology</i> , 2006, 200, 3084-3094.	2.2	253
4	Oxide nanoparticle reservoirs for storage and prolonged release of the corrosion inhibitors. <i>Electrochemistry Communications</i> , 2005, 7, 836-840.	2.3	177
5	The corrosion resistance of hot dip galvanised steel and AA2024-T3 pre-treated with bis-[triethoxysilylpropyl] tetrasulfide solutions doped with Ce(NO ₃) ₃ . <i>Corrosion Science</i> , 2006, 48, 3740-3758.	3.0	155
6	Effect of peak target power on the properties of Cr thin films sputtered by HiPIMS in deep oscillation magnetron sputtering (DOMS) mode. <i>Surface and Coatings Technology</i> , 2014, 258, 249-256.	2.2	63
7	Influence of Zr alloying on the mechanical properties, thermal stability and oxidation resistance of Cr-Al-N coatings. <i>Applied Surface Science</i> , 2014, 317, 269-277.	3.1	33
8	On the role of the energetic species in TiN thin film growth by reactive deep oscillation magnetron sputtering in Ar/N ₂ . <i>Thin Solid Films</i> , 2018, 645, 253-264.	0.8	25
9	Diamond-like carbon coatings deposited by deep oscillation magnetron sputtering in Ar-Ne discharges. <i>Diamond and Related Materials</i> , 2019, 98, 107521.	1.8	22
10	Additional control of bombardment by deep oscillation magnetron sputtering: Effect on the microstructure and topography of Cr thin films. <i>Thin Solid Films</i> , 2016, 619, 250-260.	0.8	17
11	Barrier properties of polyurethane coil coatings treated by microwave plasma polymerization. <i>Surface and Coatings Technology</i> , 2006, 200, 4040-4049.	2.2	16
12	Enhanced sinterability of mechanical alloyed La ₉ Si ₂ Ge ₄ O ₂₆ oxyapatite powders for IT-SOFC electrolytes. <i>Ceramics International</i> , 2012, 38, 5355-5361.	2.3	15
13	Sub-micron structuring of silicon using femtosecond laser interferometry. <i>Optics and Laser Technology</i> , 2013, 54, 428-431.	2.2	14
14	Influence of base pressure prior to deposition on the adhesion behaviour of carbon thin films on steel. <i>Applied Surface Science Advances</i> , 2020, 2, 100034.	2.9	11
15	Correlation between Substrate Ion Fluxes and the Properties of Diamond-Like Carbon Films Deposited by Deep Oscillation Magnetron Sputtering in Ar and Ar + Ne Plasmas. <i>Coatings</i> , 2020, 10, 914.	1.2	8
16	Role of Au incorporation in the electrochemical behavior of Ag/a:C nanocomposite coatings. <i>Surface and Coatings Technology</i> , 2020, 401, 126240.	2.2	8
17	Robust LSPR Sensing Using Thermally Embedded Au Nanoparticles in Glass Substrates. <i>Nanomaterials</i> , 2021, 11, 1592.	1.9	8
18	HiPIMS pulse shape influence on the deposition of diamond-like carbon films. <i>Surface and Coatings Technology</i> , 2022, 432, 128059.	2.2	8

#	ARTICLE	IF	CITATIONS
19	Surface modification of coil coatings with thin plasma polymer films structure and stability. Progress in Organic Coatings, 2007, 58, 248-252.	1.9	7
20	Synthesis and thermal behavior of La _{9.33} Si ₂ Ge ₄ O ₂₆ apatite for SOFCs. Journal of Alloys and Compounds, 2012, 536, S480-S484.	2.8	7
21	Influence of the RF plasma polymerization process on the barrier properties of coil-coating. Progress in Organic Coatings, 2005, 53, 225-234.	1.9	6
22	Electroless Deposition of Ni-P Coatings on HNBR for Low Friction Rubber Seals. Coatings, 2020, 10, 1237.	1.2	6
23	Durable electroless deposited Ni-P films on NBR for dynamic contacts. Characterization and tribological performance. Surface and Coatings Technology, 2021, 423, 127579.	2.2	6
24	Large-area homogeneous periodic surface structures generated on the surface of sputtered boron carbide thin films by femtosecond laser processing. Applied Surface Science, 2015, 331, 161-169.	3.1	5
25	Production of Au clusters by plasma gas condensation and their incorporation in oxide matrixes by sputtering. Applied Surface Science, 2018, 440, 144-152.	3.1	5
26	Synergetic effect of thickness and oxygen addition on the electrochemical behaviour of tantalum oxide coatings deposited by HiPIMS in DOMS mode. Electrochimica Acta, 2022, 423, 140497.	2.6	4
27	Stability of Thin Plasma Polymer Films Applied on Coil Coatings. Plasma Processes and Polymers, 2006, 3, 618-626.	1.6	2
28	Modification of Organic Coatings with Thin Plasma Polymer Films. Influence on the Barrier Properties. Materials Science Forum, 2006, 514-516, 1401-1408.	0.3	2
29	Evaluation of bias voltage-dependent mechanical properties of amorphous TiSi ₂ thin films on PEEK by nano-characterization techniques. Surface and Coatings Technology, 2021, 409, 126859.	2.2	2
30	Adhesion of Amorphous Carbon Nanofilms on Ferrous Alloy Substrates Using a Nanoscale Silicon Interlayer: Implications for Solid-State Lubrication. ACS Applied Nano Materials, 2022, 5, 3763-3772.	2.4	2
31	Development of Nanocomposite Coating by Hybrid Gas Condensation Process and Magnetron Sputtering Equipment: Electrochemical Characteristics and Surface Analysis. Journal of Materials Engineering and Performance, 2021, 30, 4083-4093.	1.2	1
32	SOL-GEL COATING WITH NANORESERVOIRS FOR CORROSION INHIBITORS. , 2005, , .		0