

Ricardo Serra

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

1,666
citations

687220

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454834

30
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32
all docs

32
docs citations

32
times ranked

1208
citing authors

#	ARTICLE	IF	CITATIONS
1	HiPIMS pulse shape influence on the deposition of diamond-like carbon films. <i>Surface and Coatings Technology</i> , 2022, 432, 128059.	2.2	8
2	Adhesion of Amorphous Carbon Nanofilms on Ferrous Alloy Substrates Using a Nanoscale Silicon Interlayer: Implications for Solid-State Lubrication. <i>ACS Applied Nano Materials</i> , 2022, 5, 3763-3772.	2.4	2
3	Synergetic effect of thickness and oxygen addition on the electrochemical behaviour of tantalum oxide coatings deposited by HiPIMS in DOMS mode. <i>Electrochimica Acta</i> , 2022, 423, 140497.	2.6	4
4	Evaluation of bias voltage-dependent mechanical properties of amorphous TiSi ₂ thin films on PEEK by nano-characterization techniques. <i>Surface and Coatings Technology</i> , 2021, 409, 126859.	2.2	2
5	Development of Nanocomposite Coating by Hybrid Gas Condensation Process and Magnetron Sputtering Equipment: Electrochemical Characteristics and Surface Analysis. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 4083-4093.	1.2	1
6	Robust LSPR Sensing Using Thermally Embedded Au Nanoparticles in Glass Substrates. <i>Nanomaterials</i> , 2021, 11, 1592.	1.9	8
7	Durable electroless deposited Ni-P films on NBR for dynamic contacts. Characterization and tribological performance. <i>Surface and Coatings Technology</i> , 2021, 423, 127579.	2.2	6
8	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
9	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
10	Electroless Deposition of Ni-P Coatings on HNBR for Low Friction Rubber Seals. <i>Coatings</i> , 2020, 10, 1237.	1.2	6
11	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
12	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
13	Production of Au clusters by plasma gas condensation and their incorporation in oxide matrixes by sputtering. <i>Applied Surface Science</i> , 2018, 440, 144-152.	3.1	5
14	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
15	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
16	Large-area homogeneous periodic surface structures generated on the surface of sputtered boron carbide thin films by femtosecond laser processing. <i>Applied Surface Science</i> , 2015, 331, 161-169.	3.1	5
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Sub-micron structuring of silicon using femtosecond laser interferometry. Optics and Laser Technology, 2013, 54, 428-431.	2.2	14
20	Enhanced sinterability of mechanical alloyed La _{9.33} Si ₂ Ge ₄ O ₂₆ oxyapatite powders for IT-SOFC electrolytes. Ceramics International, 2012, 38, 5355-5361.	2.3	15
21	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
22	Nanoporous titania interlayer as reservoir of corrosion inhibitors for coatings with self-healing ability. Progress in Organic Coatings, 2007, 58, 127-135.	1.9	280
23	Surface modification of coil coatings with thin plasma polymer films structure and stability. Progress in Organic Coatings, 2007, 58, 248-252.	1.9	7
24	The corrosion resistance of hot dip galvanised steel and AA2024-T3 pre-treated with bis-[triethoxysilylpropyl] tetrasulfide solutions doped with Ce(NO ₃) ₃ . Corrosion Science, 2006, 48, 3740-3758.	3.0	155
25	Stability of Thin Plasma Polymer Films Applied on Coil Coatings. Plasma Processes and Polymers, 2006, 3, 618-626.	1.6	2
26	Corrosion protective properties of nanostructured sol-gel hybrid coatings to AA2024-T3. Surface and Coatings Technology, 2006, 200, 3084-3094.	2.2	253
27	Barrier properties of polyurethane coil coatings treated by microwave plasma polymerization. Surface and Coatings Technology, 2006, 200, 4040-4049.	2.2	16
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	Oxide nanoparticle reservoirs for storage and prolonged release of the corrosion inhibitors. Electrochemistry Communications, 2005, 7, 836-840.	2.3	177
30	Nanostructured sol-gel coatings doped with cerium nitrate as pre-treatments for AA2024-T3. Electrochimica Acta, 2005, 51, 208-217.	2.6	498
31	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
32	SOL-GEL COATING WITH NANORESERVOIRS FOR CORROSION INHIBITORS. , 2005, , .		0