

Joao Carlos Salvador Fernandes

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,932
citations

236925

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254184

43
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51
docs citations

51
times ranked

2231
citing authors

#	ARTICLE	IF	CITATIONS
1	Corrosion behaviour of reactive sputtering deposition niobium oxide based coating on the 2198-T851 aluminium alloy. <i>Surface and Coatings Technology</i> , 2022, 434, 128197.	4.8	11
2	Simulating In Vitro the Bone Healing Potential of a Degradable and Tailored Multifunctional Mg-Based Alloy Platform. <i>Bioengineering</i> , 2022, 9, 255.	3.5	3
3	Corrosion and corrosion-fatigue synergism on the base metal and nugget zone of the 2524-T3 Al alloy joined by FSW process. <i>Corrosion Science</i> , 2021, 182, 109253.	6.6	35
4	Influence of melt treatment of AZ91D alloy on phase morphology and corrosion behaviour in Hank's solution. <i>Corrosion Engineering Science and Technology</i> , 2021, 56, 504-512.	1.4	2
5	Improving the corrosion protection of 2524-T3-Al alloy through reactive sputtering Nb ₂ O ₅ coatings. <i>Applied Surface Science</i> , 2021, 556, 149750.	6.1	29
6	Electrochemical properties of oxygen-enriched carbon-based nanomaterials. <i>Journal of Electroanalytical Chemistry</i> , 2020, 873, 114420.	3.8	12
7	Effect of bio-functional MAO layers on the electrochemical behaviour of highly porous Ti. <i>Surface and Coatings Technology</i> , 2020, 386, 125487.	4.8	22
8	Analysis of the degradation in the Wells turbine blades of the Pico oscillating-water-column wave energy plant. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 115, 109368.	16.4	13
9	On the Global and Localised Corrosion Behaviour of the AA2524-T3 Aluminium Alloy Used as Aircraft Fuselage Skin. <i>Materials Research</i> , 2019, 22, .	1.3	10
10	Influence of DLC Film Deposition on the Corrosion and Micro-abrasive Wear Tests of the 2524-T3 Al Alloy. <i>Orbital</i> , 2019, 11, .	0.3	0
11	Effect of Localized Corrosion on Fatigueâ€œCrack Growth in 2524-T3 and 2198-T851 Aluminum Alloys Used as Aircraft Materials. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 1917-1926.	2.5	23
12	Characterization of Porous Phosphate Coatings Enriched with Magnesium or Zinc on CP Titanium Grade 2 under DC Plasma Electrolytic Oxidation. <i>Metals</i> , 2018, 8, 112.	2.3	17
13	Biopolymeric coatings for delivery of antibiotic and controlled degradation of bioresorbable Mg AZ31 alloys. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2017, 66, 533-543.	3.4	12
14	Corrosion mechanisms in titanium oxide-based films produced by anodic treatment. <i>Electrochimica Acta</i> , 2017, 234, 16-27.	5.2	113
15	Degradation of selective solar absorber surfaces in solar thermal collectors â€œ An EIS study. <i>Solar Energy Materials and Solar Cells</i> , 2017, 160, 149-163.	6.2	21
16	In vivoassessment of a new multifunctional coating architecture for improved Mg alloy biocompatibility. <i>Biomedical Materials (Bristol)</i> , 2016, 11, 045007.	3.3	6
17	Controlled drug release from hydrogels for contact lenses: Drug partitioning and diffusion. <i>International Journal of Pharmaceutics</i> , 2016, 515, 467-475.	5.2	44
18	Corrosion Behavior of the Friction Stir Welded AZ31 Magnesium Alloy. <i>Microscopy and Microanalysis</i> , 2015, 21, 33-34.	0.4	1

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19	Study of the sensitisation process of a duplex stainless steel (UNS 1.4462) by means of confocal microscopy and localised electrochemical techniques. <i>Corrosion Science</i> , 2015, 94, 327-341.	6.6	29
20	in-vitro corrosion behaviour of the magnesium alloy with Al and Zn (AZ31) protected with a biodegradable polycaprolactone coating loaded with hydroxyapatite and cephalexin. <i>Electrochimica Acta</i> , 2015, 179, 431-440.	5.2	59
21	Biofunctional composite coating architectures based on polycaprolactone and nanohydroxyapatite for controlled corrosion activity and enhanced biocompatibility of magnesium AZ31 alloy. <i>Materials Science and Engineering C</i> , 2015, 48, 434-443.	7.3	57
22	SVET, SKP and EIS study of the corrosion behaviour of high strength Al and Al-Li alloys used in aircraft fabrication. <i>Corrosion Science</i> , 2014, 84, 30-41.	6.6	170
23	Corrosion resistance of a composite polymeric coating applied on biodegradable AZ31 magnesium alloy. <i>Acta Biomaterialia</i> , 2013, 9, 8660-8670.	8.3	136
24	Optical sensors for corrosion detection in airframes. <i>Sensors and Actuators B: Chemical</i> , 2013, 182, 774-781.	7.8	11
25	Novel biosensing device for point-of-care applications with plastic antibodies grown on Au-screen printed electrodes. <i>Sensors and Actuators B: Chemical</i> , 2013, 182, 733-740.	7.8	31
26	Determination of Microcystin-LR in waters in the subnanomolar range by sol-gel imprinted polymers on solid contact electrodes. <i>Analyst</i> , 2012, 137, 2437.	3.5	11
27	Anti-corrosion performance of a new silane coating for corrosion protection of AZ31 magnesium alloy in Hank's solution. <i>Surface and Coatings Technology</i> , 2012, 206, 4368-4375.	4.8	103
28	Corrosion behaviour of Al/Al ₃ Ti and Al/Al ₃ Zr functionally graded materials produced by centrifugal solid-particle method: Influence of the intermetallics volume fraction. <i>Corrosion Science</i> , 2011, 53, 2058-2065.	6.6	48
29	Pt-Ru nanoparticles supported on functionalized carbon as electrocatalysts for the methanol oxidation. <i>Electrochimica Acta</i> , 2011, 56, 8509-8518.	5.2	29
30	8th International Symposium on Electrochemical Impedance Spectroscopy (EIS 2010). <i>Electrochimica Acta</i> , 2011, 56, 7761-7762.	5.2	2
31	Studying phosphate corrosion inhibition at the cut edge of coil coated galvanized steel using the SVET and EIS. <i>Progress in Organic Coatings</i> , 2010, 69, 219-224.	3.9	32
32	Polyaniline coatings on aluminium alloy 6061-T6: Electrosynthesis and characterization. <i>Electrochimica Acta</i> , 2010, 55, 3580-3588.	5.2	45
33	Corrosion behaviour of NiTi alloy. <i>Electrochimica Acta</i> , 2009, 54, 921-926.	5.2	162
34	Corrosion inhibition at galvanized steel cut edges by phosphate pigments. <i>Electrochimica Acta</i> , 2009, 54, 3857-3865.	5.2	62
35	Electrochemical behaviour of chromium-implanted magnesium in hydroxide, chloride and sulphate solutions. <i>Surface and Coatings Technology</i> , 2008, 202, 4086-4093.	4.8	8
36	Electrodeposition and characterization of polypyrrole films on aluminium alloy 6061-T6. <i>Electrochimica Acta</i> , 2008, 53, 4754-4763.	5.2	86

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37	Multiprobe chloride sensor for in situ monitoring of reinforced concrete structures. Cement and Concrete Composites, 2006, 28, 233-236.	10.7	96
38	Capacitance and photoelectrochemical studies for the assessment of anodic oxide films on aluminium. Electrochimica Acta, 2004, 49, 4701-4707.	5.2	60
39	Anodising of Al 2024-T3 in a modified sulphuric acid/boric acid bath for aeronautical applications. Corrosion Science, 2003, 45, 149-160.	6.6	119
40	Passivity breakdown of Al 2024-T3 alloy in chloride solutions: a test of the point defect model. Electrochemistry Communications, 2002, 4, 353-357.	4.7	49
41	Plasma-polymerised coatings used as pre-treatment for aluminium alloys. Surface and Coatings Technology, 2002, 154, 8-13.	4.8	33
42	EIS on plasma-polymerised coatings used as pre-treatment for aluminium alloys. Electrochimica Acta, 2002, 47, 2253-2258.	5.2	25
43	Spin valve heads with a corrosion resistant MnRh exchange layer. IEEE Transactions on Magnetics, 1998, 34, 2343-2347.	2.1	24
44	The behaviour of ion-implanted tungsten species during anodic oxidation of aluminium. Journal Physics D: Applied Physics, 1998, 31, 2083-2090.	2.8	2
45	Impedance spectra for aluminum 7075 during the early stages of immersion in sodium chloride. Corrosion Science, 1993, 34, 2105-2108.	6.6	43
46	Corrosion behaviour of tungsten-implanted aluminium in carbonate and sulphate solutions. Surface and Coatings Technology, 1992, 56, 75-79.	4.8	3
47	Corrosion behaviour of physically vapour deposited Al-Zn coatings on 7075 aluminium alloy. Surface and Coatings Technology, 1992, 53, 99-100.	4.8	2
48	Corrosion behaviour of physical vapour deposition aluminium-based coatings on 2024 aluminium alloy. Surface and Coatings Technology, 1992, 52, 289-290.	4.8	4
49	Effect of carbonate and lithium ions on the corrosion performance of pure aluminium. Electrochimica Acta, 1992, 37, 2659-2661.	5.2	6
50	Electrochemical impedance studies on pure aluminium in carbonate solution. Journal of Applied Electrochemistry, 1990, 20, 874-876.	2.9	11