Alda Mp SimÃµes

List of Publications by Year
in descending order

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78	5,578	71102	76900
papers	citations	41 h-index	74 g-index

81	81	81	3109
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Monitoring of corrosionâ€fatigue degradation of grade R4 steel using an electrochemicalâ€mechanical combined approach. Fatigue and Fracture of Engineering Materials and Structures, 2019, 42, 2509-2519.	3.4	5
2	Development of a thin ceramic-graphene nanolaminate coating for corrosion protection of stainless steel. Corrosion Science, 2016, 105, 161-169.	6.6	100
3	Application of scanning electrode techniques for the evaluation of ironâ€“zinc corrosion in nearly neutral chloride solutions. Corrosion Science, 2016, 104, 123-131.	6.6	24
4	Functionalization of Titanium Alloy Surface by Graphene Nanoplatelets and Metal Oxides: Corrosion Inhibition. Journal of Nanoscience and Nanotechnology, 2015, 15, 6533-6540.	0.9	6
5	A forming limit curve for the corrosion resistance of coil-coatings based on electrochemical measurements. Progress in Organic Coatings, 2015, 80, 156-163.	3.9	4
6	SECM imaging of the cut edge corrosion of galvanized steel as a function of pH. Electrochimica Acta, 2015, 153, 238-245.	5.2	30
7	Visualisation of the Galvanic Effects at Welds on Carbon Steel. Journal of the Brazilian Chemical Society, 2015, , .	0.6	3
8	EIS and SVET assessment of corrosion resistance of thin Zn-55% Al-rich primers: Effect of immersion and of controlled deformation. Electrochimica Acta, 2014, 148, 153-163.	5.2	23
9	The role of Ce(III)-enriched zeolites on the corrosion protection of AA2024-T3. Electrochimica Acta, 2013, 112, 549-556.	5.2	51
10	Effects of mechanical forming on the corrosion of electrogalvanised steel. Corrosion Science, 2013, 69, 87-96.	6.6	21
11	Thermodynamic Simulation of Phosphate Precipitation based on Ion-Selective Microelectrode Measurements. Journal of the Brazilian Chemical Society, 2013, , .	0.6	0
12	Local Electrochemical Impedance Spectroscopy Investigation of Corrosion Inhibitor Films on Copper. ECS Transactions, 2012, 41, 227-235.	0.5	5
13	Electrochemical and analytical investigation of passive films formed on stainless steels in alkaline media. Cement and Concrete Composites, 2012, 34, 1075-1081.	10.7	131
14	An environmentally acceptable primer for galvanized steel: Formulation and evaluation by SVET. Corrosion Science, 2011, 53, 464-472.	6.6	22
15	The uneven corrosion of deep drawn coil-coatings investigated by EIS. Electrochimica Acta, 2011, 56, 7825-7832.	5.2	10
16	Use of SECM to compare corrosion resistance of DIN W. Nr. 1Â·4460 high N and AISI 316L austenitic stainless steels in physiological solutions. Corrosion Engineering Science and Technology, 2011, 46, 599-604.	1.4	2
17	Electrochemistry and surface analysis of the effect of benzotriazole on the cut edge corrosion of galvanized steel. Electrochimica Acta, 2010, 55, 5523-5531.	5.2	35
18	Studying phosphate corrosion inhibition at the cut edge of coil coated galvanized steel using the SVET and EIS. Progress in Organic Coatings, 2010, 69, 219-224.	3.9	32

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19	Effect of deep drawing on the performance of coil-coatings assessed by electrochemical techniques. Progress in Organic Coatings, 2009, 65, 295-303.	3.9	15
20	Use of SECM to study the electrochemical behavior of DIN 1.4575 superferritic stainless steel aged at 475â€‰Â°C. Materials and Corrosion - Werkstoffe Und Korrosion, 2009, 60, 889-894.	1.5	10
21	Corrosion inhibition at galvanized steel cut edges by phosphate pigments. Electrochimica Acta, 2009, 54, 3857-3865.	5.2	62
22	Composition and corrosion resistance of cerium conversion films on the AZ31 magnesium alloy and its relation to the salt anion. Applied Surface Science, 2008, 254, 1806-1814.	6.1	99
23	Assessment of the corrosion protection of aluminium substrates by a Mg-rich primer: EIS, SVET and SECM study. Progress in Organic Coatings, 2008, 63, 260-266.	3.9	79
24	Ionic liquid enhanced electrochemical characterization of organic coatings. Progress in Organic Coatings, 2008, 63, 250-259.	3.9	15
25	Simulation of Wet-Dry Cycling of Organic Coatings Using Ionic Liquids. Journal of the Electrochemical Society, 2007, 154, F177.	2.9	17
26	Use of SVET and SECM to study the galvanic corrosion of an ironâ€“zinc cell. Corrosion Science, 2007, 49, 726-739.	6.6	167
27	Composition and structure of coloured oxide films on stainless steel formed by triangular current scan and cathodic hardening treatment. Corrosion Science, 2007, 49, 2303-2314.	6.6	13
28	SVET and SECM imaging of cathodic protection of aluminium by a Mg-rich coating. Corrosion Science, 2007, 49, 3838-3849.	6.6	111
29	Investigating corrosion processes in the micrometric range: A SVET study of the galvanic corrosion of zinc coupled with iron. Corrosion Science, 2007, 49, 4568-4580.	6.6	96
30	Characterization of rare-earth conversion films formed on the AZ31 magnesium alloy and its relation with corrosion protection. Applied Surface Science, 2007, 253, 6922-6931.	6.1	190
31	The use of multiple electrochemical techniques to characterize Mg-rich primers for Al alloys. Progress in Organic Coatings, 2007, 59, 172-178.	3.9	78
32	Magnesium-rich primers for chromate-free protective systems on Al 2024 and Al 7075. , 2007, , 63-70.		2
33	Electrochemical behaviour of a Mg-rich primer in the protection of Al alloys. Corrosion Science, 2006, 48, 1292-1306.	6.6	121
34	Corrosion inhibition by chromate and phosphate extracts for iron substrates studied by EIS and SVET. Corrosion Science, 2006, 48, 1500-1512.	6.6	158
35	Comparison of testing solutions on the protection of Al-alloys using a Mg-rich primer. Corrosion Science, 2006, 48, 2226-2240.	6.6	85
36	Multiprobe chloride sensor for in situ monitoring of reinforced concrete structures. Cement and Concrete Composites, 2006, 28, 233-236.	10.7	96

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37	Simulation of Wet-Dry Cycling of Organic Coatings using Ionic Liquids. ECS Transactions, 2006, 2, 31-48.	0.5	1
38	Comparative electrochemical studies of zinc chromate and zinc phosphate as corrosion inhibitors for zinc. Progress in Organic Coatings, 2005, 52, 339-350.	3.9	101
39	Application of the scanning electrochemical microscope to the examination of organic coatings on metallic substrates. Progress in Organic Coatings, 2005, 53, 177-182.	3.9	66
40	Use of Ionic Liquids for the Electrochemical Characterization of Water Transport in Organic Coatings. Electrochemical and Solid-State Letters, 2005, 8, B60.	2.2	21
41	Capacitance behaviour of passive films on ferritic and austenitic stainless steel. Corrosion Science, 2005, 47, 581-591.	6.6	288
42	Imaging concentration profiles of redox-active species in open-circuit corrosion processes with the scanning electrochemical microscope. Electrochemistry Communications, 2004, 6, 1212-1215.	4.7	96
43	Silanes and rare earth salts as chromate replacers for pre-treatments on galvanised steel. Electrochimica Acta, 2004, 49, 2927-2935.	5.2	211
44	Formability of organic coatingsâ€"an electrochemical approach. Electrochimica Acta, 2004, 49, 3947-3955.	5.2	16
45	The electronic properties of sputtered chromium and iron oxide films. Corrosion Science, 2004, 46, 1479-1499.	6.6	95
46	Assessment of water uptake in coil coatings by capacitance measurements. Progress in Organic Coatings, 2003, 46, 55-61.	3.9	64
47	Effect of uniaxial strain on the protective properties of coil-coatings. Progress in Organic Coatings, 2003, 46, 220-227.	3.9	38
48	Water sorption in freestanding PVC films by capacitance measurements. Progress in Organic Coatings, 2003, 46, 130-134.	3.9	38
49	Chloride-induced corrosion on reinforcing steel: from the fundamentals to the monitoring techniques. Cement and Concrete Composites, 2003, 25, 491-502.	10.7	398
50	An impedance model for the estimation of water absorption in organic coatings. Part I: A linear dielectric mixture equation. Corrosion Science, 2003, 45, 1631-1646.	6.6	119
51	An impedance model for the estimation of water absorption in organic coatings. Part II: A complex equation of mixture. Corrosion Science, 2003, 45, 1647-1660.	6.6	47
52	Weathering of coil-coatings: UV radiation and thermal effects. Revista De Metalurgia, 2003, 39, 167-173.	0.5	11
53	A Capacitance Model for the Evaluation of Water Absorption in Organic Coatings. Key Engineering Materials, 2002, 230-232, 369-372.	0.4	0
54	Effect of Strain on the Protective Properties of Organic Coatings. Key Engineering Materials, 2002, 230-232, 361-364.	0.4	1

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55	Electrochemical behaviour of thermally treated Cr-oxide films deposited on stainless steel. Corrosion Science, 2002, 44, 451-465.	6.6	63
56	Semiconducting properties of oxide and passive films formed on AISI 304 stainless steel and Alloy 600. Journal of the Brazilian Chemical Society, 2002, 13, 433.	0.6	56
57	Composition and corrosion behaviour of galvanised steel treated with rare-earth salts: the effect of the cation. Progress in Organic Coatings, 2002, 44, 111-120.	3.9	115
58	Corrosion behaviour of rebars in fly ash mortar exposed to carbon dioxide and chlorides. Cement and Concrete Composites, 2002, 24, 45-53.	10.7	108
59	Influence of the temperature of film formation on the electronic structure of oxide films formed on 304 stainless steel. Electrochimica Acta, 2001, 46, 3767-3776.	5.2	126
60	Composition and behaviour of cerium films on galvanised steel. Progress in Organic Coatings, 2001, 43, 274-281.	3.9	111
61	Effect of fly ash on concrete reinforcement corrosion studied by EIS. Cement and Concrete Composites, 2000, 22, 175-185.	10.7	137
62	E.I.S. evaluation of attached and free polymer films. Progress in Organic Coatings, 2000, 38, 1-7.	3.9	96
63	The corrosion performance of organosilane based pre-treatments for coatings on galvanised steel. Progress in Organic Coatings, 2000, 38, 17-26.	3.9	74
64	The role of Mo in the chemical composition and semiconductive behaviour of oxide films formed on stainless steels. Corrosion Science, 1999, 41, 17-34.	6.6	142
65	Electrochemical characterisation of oxide films formed on Tiî—¸6A1î—¸4V alloy implanted with Ir for bioengineering applications. Electrochimica Acta, 1998, 43, 203-211.	5.2	26
66	Electronic structure of iridium oxide films formed in neutral phosphate buffer solution. Journal of Electroanalytical Chemistry, 1998, 441, 5-12.	3.8	34
67	Chemical composition and semiconducting behaviour of stainless steel passive films in contact with artificial seawater. Corrosion Science, 1998, 40, 481-494.	6.6	76
68	Analytical Characterization of the Passive Film Formed on Steel in Solutions Simulating the Concrete Interstitial Electrolyte. Corrosion, 1998, 54, 347-353.	1.1	76
69	Semiconducting Properties of Passive Films Formed on Stainless Steels: Influence of the Alloying Elements. Journal of the Electrochemical Society, 1998, 145, 3821-3829.	2.9	277
70	Semiconducting Behaviour of Stainless Steel Passive Films in Contact with Artificial Seawater. Materials Science Forum, 1998, 289-292, 887-894.	0.3	5
71	Effect of Ageing on the Formability of Coil Coatings. Materials Science Forum, 1998, 289-292, 247-258.	0.3	6
72	Carbonation of Flyash-Containing Concrete: Electrochemical Studies. Materials Science Forum, 1995, 192-194, 867-876.	0.3	4

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73	Chemical Composition of Passive Films on AISI 304 Stainless Steel. Journal of the Electrochemical Society, 1994, 141, 3347-3356.	2.9	147
74	The assessment of the electrochemical behaviour of flyash-containing concrete by impedance spectroscopy. Corrosion Science, 1993, 35, 1571-1578.	6.6	21
75	Influence of temperature on the properties of passive films formed on AISI 304 stainless steel. Electrochimica Acta, 1991, 36, 315-320.	5.2	42
76	Passivation and Localized Corrosion. , 1991, , 485-520.		4
77	Study of Passive Films Formed on AISI 304 Stainless Steel by Impedance Measurements and Photoelectrochemistry. Journal of the Electrochemical Society, 1990, 137, 82-87.	2.9	268
78	Crevice corrosion studies on stainless steel using electrochemical noise measurements. Corrosion Engineering Science and Technology, 1987, 22, 21-25.	0.3	25