Carmen MarÃ-a Abreu

List of Publications by Year
in descending order

42 papers	1,178 citations	516561 16 h-index	377752 34 g-index
42 all docs	42 docs citations	42 times ranked	972 citing authors

#	Article	IF	Citations
1	Electrochemical study of the surface metal matrix composite developed on AA 2024-T351 by the friction stir process. Corrosion Engineering Science and Technology, 2019, 54, 715-725.	0.7	14
2	Microstructure and Wear Properties of Surface Composite Layer Produced by Friction Stir Processing (FSP) in AA2024-T351 Aluminum Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 2860-2874.	1.1	10
3	Evolution of corrosion behavior for AA7075 aluminum alloy implanted with nitrogen. Nuclear Instruments & Methods in Physics Research B, 2019, 442, 1-12.	0.6	11
4	Friction stir processing strategies to develop a surface composite layer on AA6061-T6. Materials and Manufacturing Processes, 2018, 33, 1133-1140.	2.7	25
5	Microstructure and mechanical properties of Al/SiC composite surface layer produced by friction stir processing. CiÃªncia & Tecnologia Dos Materiais, 2017, 29, e82-e86.	0.5	12
6	Study of surface corrosion on AA 2017â€T4 aluminum alloy by using electrochemical parameters. Surface and Interface Analysis, 2016, 48, 676-679.	0.8	4
7	Characterization of a Historical Cannonball from the Fortress of San Juan De UlÃºa Exposed to a Marine Environment. Archaeometry, 2016, 58, 610-623.	0.6	4
8	Towards the Determination of the Origin of Sulfur Compounds in Marine Zones by Means of the Chloride/Sulfate Ratio: Applications in Atmospheric Corrosion Studies. Journal of the Electrochemical Society, 2016, 163, C316-C323.	1.3	5
9	Viability of epoxyâ€“siloxane hybrid coatings for preventing steel corrosion. Progress in Organic Coatings, 2016, 92, 29-43.	1.9	40
10	An Inert Ionic Liquid-Based System for Ascertaining Electrolyte Diffusivity in Protective Coatings. Corrosion, 2015, 71, 259-266.	0.5	3
11	Spent tyre valorisation: new polymer modified asphalts for steel protection in an aggressive marine environment. RSC Advances, 2015, 5, 76057-76064.	1.7	3
12	Wear and corrosion performance of two different tempers (T6 and T73) of AA7075 aluminium alloy after nitrogen implantation. Applied Surface Science, 2015, 327, 51-61.	3.1	45
13	Ionic liquids improve the anticorrosion performance of Zn-rich coatings. RSC Advances, 2014, 4, 59587-59593.	1.7	12
14	Assessing Pretreatment Effect on the Protective Properties of Different Coating Systems Against Marine Corrosion. Corrosion, 2014, 70, 1203-1218.	0.5	8
15	Unraveling the Impact of Chloride and Sulfate Ions Collection on Atmospheric Corrosion of Steel. Corrosion, 2013, 69, 1217-1224.	0.5	6
16	Influence of molybdenum ion implantation on the localized corrosion resistance of a high strength aluminium alloy. Corrosion Science, 2012, 54, 143-152.	3.0	31
17	Passive layers developed on different tempers of AA7075 aluminium alloy after molybdenum implantation. Surface and Interface Analysis, 2012, 44, 1039-1044.	0.8	5
18	Effect of nitrogen and molybdenum ion implantation in the tribological behavior of AA7075 aluminum alloy. Wear, 2012, 276-277, 53-60.	1.5	34

#	Article	IF	Citations
19	Mo implantation in austenitic stainless steels: effect on the corrosion resistance in chloride acidic media. Surface and Interface Analysis, 2010, 42, 621-625.	0.8	2
20	Influence of nitrogen implantation on the localized corrosion resistance of different tempers of AA7075 aluminium alloy. Surface and Interface Analysis, 2010, 42, 636-640.	0.8	6
21	An XPS study on the influence of nitrogen implantation on the passive layers developed on different tempers of AA7075 aluminum alloy. Surface and Interface Analysis, 2010, 42, 592-596.	0.8	15
22	Estudio comparativo del comportamiento electroquÃmico del hierro en medio alcalino en presencia de lodos rojos y lodos grises. Efecto del Al³⁺. Revista De Metalurgia, 2009, 45, 5-13.	0.1	4
23	Microstructure of the passive layer formed on AA2024â€T3 aluminum alloy surface implanted with nitrogen. Surface and Interface Analysis, 2008, 40, 290-293.	0.8	5
24	Effect of chromium and nitrogen coâ€implantation on the characteristics of the passive layer developed on austenitic and duplex stainless steels. Surface and Interface Analysis, 2008, 40, 294-298.	0.8	4
25	Electrochemical behaviour of an AISI 304L stainless steel implanted with nitrogen. Electrochimica Acta, 2008, 53, 6000-6007.	2.6	35
26	XPS study of passive films generated on AISI 430 ferritic stainless steel implanted with nitrogen and chromium plus nitrogen. Surface and Interface Analysis, 2006, 38, 851-853.	0.8	6
27	Effect of surface preparation on the evolution of the passive films formed on AISI 304L. Surface and Interface Analysis, 2006, 38, 259-262.	0.8	1
28	The effect of Ni in the electrochemical properties of oxide layers grown on stainless steels. Electrochimica Acta, 2006, 51, 2991-3000.	2.6	119
29	Long-term behaviour of AISI 304L passive layer in chloride containing medium. Electrochimica Acta, 2006, 51, 1881-1890.	2.6	86
30	High frequency impedance spectroscopy study of passive films formed on AISI 316 stainless steel in alkaline medium. Journal of Electroanalytical Chemistry, 2004, 572, 335-345.	1.9	110
31	Comparative study of passive films of different stainless steels developed on alkaline medium. Electrochimica Acta, 2004, 49, 3049-3056.	2.6	115
32	Influence of chromium and cerium implantation in the electrochemical development of passive layers on AISI 304L. Electrochimica Acta, 2004, 49, 3057-3065.	2.6	19
33	AnÃ¡lisis de las pelÃculas pasivas generadas en aceros inoxidables implantados con cromo. Revista De Metalurgia, 2004, 40, 224-229.	0.1	0
34	Modifications of the stainless steels passive film induced by cerium implantation. Surface and Coatings Technology, 2002, 158-159, 582-587.	2.2	23
35	Characterisation of the electrochemical behaviour of cerium implanted stainless steels. Electrochimica Acta, 2002, 47, 2215-2222.	2.6	28
36	Galvanic coupling between carbon steel and austenitic stainless steel in alkaline media. Electrochimica Acta, 2002, 47, 2271-2279.	2.6	65

#	Article	IF	Citations
37	Comportamiento electroquÃmico de un acero inoxidable AISI 430 implantado con cerio. Revista De Metalurgia, 2002, 38, 315-325.	0.1	5
38	A New Approach to the Determination of the Cathodic Protection Period in Zinc-Rich Paints. Corrosion, 1999, 55, 1173-1181.	0.5	74
39	Influencia de distintos medios agresivos en la acciÃ³n protectora de las pinturas ricas en zinc. Revista De Metalurgia, 1999, 35, 182-189.	0.1	2
40	Electrochemical behaviour of zinc-rich epoxy paints in 3% NaCl solution. Electrochimica Acta, 1996, 41, 2405-2415.	2.6	176
41	Microstructure of the Passive Layer Formed on Different Austenitic Stainless Steels Implanted with Molybdenum. Defect and Diffusion Forum, 0, 289-292, 175-184.	0.4	4
42	An Insight on the Influence of Ion Implantation on the Pitting Corrosion Resistance of AISI 430 Stainless Steel. Defect and Diffusion Forum, 0, 289-292, 501-508.	0.4	2