M Julia CristÃ³bal

List of Publications by Year
in descending order

50 papers	1,221 citations	394421 19 h-index	377865 34 g-index
50 all docs	50 docs citations	50 times ranked	982 citing authors

#	Article	IF	Citations
1	The effect of Ni in the electrochemical properties of oxide layers grown on stainless steels. Electrochimica Acta, 2006, 51, 2991-3000.	5.2	119
2	Comparative study of passive films of different stainless steels developed on alkaline medium. Electrochimica Acta, 2004, 49, 3049-3056.	5.2	115
3	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.	3.8	110
4	Long-term behaviour of AISI 304L passive layer in chloride containing medium. Electrochimica Acta, 2006, 51, 1881-1890.	5.2	86
5	The influence of yttrium ion implantation on the oxidation behaviour of powder metallurgically produced chromium. Surface and Coatings Technology, 1996, 83, 205-211.	4.8	79
6	Galvanic coupling between carbon steel and austenitic stainless steel in alkaline media. Electrochimica Acta, 2002, 47, 2271-2279.	5.2	65
7	Title is missing!. Oxidation of Metals, 2001, 55, 105-118.	2.1	49
8	A study of the initial stages of oxidation of yttrium-implanted chromium using X-ray diffraction and absorption spectroscopy. Corrosion Science, 1996, 38, 805-822.	6.6	45
9	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.	6.1	45
10	The influence of implanted silicon on the cyclic oxidation behaviour of two different stainless steels. Surface and Coatings Technology, 1999, 120-121, 442-447.	4.8	38
11	Electrochemical behaviour of an AISI 304L stainless steel implanted with nitrogen. Electrochimica Acta, 2008, 53, 6000-6007.	5.2	35
12	Effect of nitrogen and molybdenum ion implantation in the tribological behavior of AA7075 aluminum alloy. Wear, 2012, 276-277, 53-60.	3.1	34
13	Effect of yttrium and erbium ion implantation on the oxidation behaviour of the AISI 304 austenitic steel. Surface and Coatings Technology, 2000, 126, 116-122.	4.8	32
14	Influence of molybdenum ion implantation on the localized corrosion resistance of a high strength aluminium alloy. Corrosion Science, 2012, 54, 143-152.	6.6	31
15	Characterisation of the electrochemical behaviour of cerium implanted stainless steels. Electrochimica Acta, 2002, 47, 2215-2222.	5.2	28
16	Friction stir processing strategies to develop a surface composite layer on AA6061-T6. Materials and Manufacturing Processes, 2018, 33, 1133-1140.	4.7	25
17	Modifications of the stainless steels passive film induced by cerium implantation. Surface and Coatings Technology, 2002, 158-159, 582-587.	4.8	23
18	Effects of yttrium and erbium ion implantation on the AISI 304 stainless steel passive layer. Thin Solid Films, 2002, 414, 231-238.	1.8	23

#	Article	IF	Citations
19	Title is missing!. Oxidation of Metals, 2001, 55, 165-175.	2.1	21
20	Influence of chromium and cerium implantation in the electrochemical development of passive layers on AISI 304L. Electrochimica Acta, 2004, 49, 3057-3065.	5.2	19
21	Electrochemical Impedance Spectroscopy as a Tool for Studying Steel Corrosion Inhibition in Simulated Concrete Environmentsâ€"Red Mud Used as Rebar Corrosion Inhibitor. Journal of ASTM International, 2006, 3, 11785.	0.2	19
22	Dissolution and passivation of aluminide coatings on model and Ni-based superalloy. Surface and Coatings Technology, 2019, 357, 1037-1047.	4.8	18
23	Title is missing!. Oxidation of Metals, 2000, 54, 87-101.	2.1	15
24	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.	1.8	15
25	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.	1.4	14
26	Tribological behaviour of aluminium alloy AA7075 after ion implantation. Surface and Coatings Technology, 2012, 209, 124-130.	4.8	13
27	An XPS analysis of the oxide surface layers formed on a friction stir processed magnesium alloy. Surface and Interface Analysis, 2012, 44, 1030-1034.	1.8	13
28	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
29	Evolution of corrosion behavior for AA7075 aluminum alloy implanted with nitrogen. Nuclear Instruments & Methods in Physics Research B, 2019, 442, 1-12.	1.4	11
30	MWCNT-Reinforced AA7075 Composites: Effect of Reinforcement Percentage on Mechanical Properties. Metals, 2021, 11, 969.	2.3	11
31	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.	2.2	10
32	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.	1.8	6
33	Influence of nitrogen implantation on the localized corrosion resistance of different tempers of AA7075 aluminium alloy. Surface and Interface Analysis, 2010, 42, 636-640.	1.8	6
34	Microstructure of the passive layer formed on AA2024â€T3 aluminum alloy surface implanted with nitrogen. Surface and Interface Analysis, 2008, 40, 290-293.	1.8	5
35	Passive layers developed on different tempers of AA7075 aluminium alloy after molybdenum implantation. Surface and Interface Analysis, 2012, 44, 1039-1044.	1.8	5
36	Comportamiento electroquÃmico de un acero inoxidable AISI 430 implantado con cerio. Revista De Metalurgia, 2002, 38, 315-325.	0.5	5

#	ARTICLE	IF	CITATIONS
37	Effect of chromium and nitrogen coâ€ımplantation on the characteristics of the passive layer developed on austenitic and duplex stainless steels. Surface and Interface Analysis, 2008, 40, 294-298.	1.8	4
38	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
39	Towards high temperature materials performance through ion implantation. Materials and Corrosion - Werkstoffe Und Korrosion, 2000, 51, 344-349.	1.5	3
40	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
41	Mo implantation in austenitic stainless steels: effect on the corrosion resistance in chloride acidic media. Surface and Interface Analysis, 2010, 42, 621-625.	1.8	2
42	Effect of Carbon Nanotube Content and Mechanical Milling Conditions on the Manufacture of AA7075/MWCNT Composites. Metals, 2022, 12, 1020.	2.3	2
43	The Use of Ion Implantation to Study the Influence of Yttrium on the Oxidation Behaviour of PM Chromium. Materials Science Forum, 1997, 251-254, 259-266.	0.3	1
44	Effect of surface preparation on the evolution of the passive films formed on AISI 304L. Surface and Interface Analysis, 2006, 38, 259-262.	1.8	1
45	The effect of the Cerium ion implantation in the passive films properties of a duplex stainless steel. , 2006, , 47-52.		1
46	Studies of the Oxidation Mechanism of Yttrium Implanted Chromium Using XAFS and GAXRD. European Physical Journal Special Topics, 1997, 7, C2-1205-C2-1206.	0.2	1
47	An insight on the role of Nickel in the passive films generated on different stainless steels. , 2006, , 29-34.		0
48	Analysis of the Passive Layer Developed on Two Stainless Steels Co-Implanted with Chromium and Nitrogen. Materials Science Forum, 0, 587-588, 800-804.	0.3	0
49	AnÃ¡lisis de las pelÃculas pasivas generadas en aceros inoxidables implantados con cromo. Revista De Metalurgia, 2004, 40, 224-229.	0.5	0
50	The effect of Al3+ in the passivity of iron in alkaline media containing chlorides. , 2006, , 107-112.		0