

Jose María Sánchez Amaya

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,511
citations

331670

21
h-index

315739

38
g-index

51
all docs

51
docs citations

51
times ranked

1512
citing authors

#	ARTICLE	IF	CITATIONS
1	Shot noise and statistical parameters for the estimation of corrosion mechanisms. Corrosion Science, 2005, 47, 3280-3299.	6.6	183
2	Single-Step Process To Prepare CeO ₂ Nanotubes with Improved Catalytic Activity. Nano Letters, 2009, 9, 1395-1400.	9.1	113
3	Biocorrosion of carbon steel alloys by an hydrogenotrophic sulfate-reducing bacterium Desulfovibrio capillatus isolated from a Mexican oil field separator. Corrosion Science, 2006, 48, 2417-2431.	6.6	108
4	Inhibitor properties of "green" pigments for paints. Progress in Organic Coatings, 2003, 46, 280-287.	3.9	98
5	Laser welding of aluminium alloys 5083 and 6082 under conduction regime. Applied Surface Science, 2009, 255, 9512-9521.	6.1	88
6	Microstructure, microhardness and corrosion resistance of remelted TiC ₂ and Ti6Al4V by a high power diode laser. Corrosion Science, 2012, 56, 36-48.	6.6	86
7	Use of wavelets to study electrochemical noise transients. Electrochimica Acta, 2001, 46, 2353-2361.	5.2	77
8	Behaviour of the alloy AA2017 in aqueous solutions of NaCl. Part I: Corrosion mechanisms. Corrosion Science, 2009, 51, 518-524.	6.6	69
9	XPS and AES analyses of cerium conversion coatings generated on AA5083 by thermal activation. Surface and Coatings Technology, 2012, 213, 105-116.	4.8	58
10	Influence of the degree of polishing of alloy AA 5083 on its behaviour against localised alkaline corrosion. Corrosion Science, 2004, 46, 1909-1920.	6.6	53
11	Monitoring the degradation of a high solids epoxy coating by means of EIS and EN. Progress in Organic Coatings, 2007, 60, 248-254.	3.9	48
12	Laser welding of AA 5083 samples by high power diode laser. Science and Technology of Welding and Joining, 2009, 14, 78-86.	3.1	46
13	Noise resistance and shot noise parameters on the study of IGC of aluminium alloys with different heat treatments. Electrochimica Acta, 2007, 52, 6569-6583.	5.2	41
14	Using EIS to analyse samples of Al-Mg alloy AA5083 treated by thermal activation in cerium salt baths. Corrosion Science, 2008, 50, 1376-1384.	6.6	41
15	Reliability of electrochemical noise measurements: Results of round-robin testing on electrochemical noise. Electrochimica Acta, 2014, 120, 379-389.	5.2	41
16	Sulfate-reducing bacteria inhabiting natural corrosion deposits from marine steel structures. Applied Microbiology and Biotechnology, 2013, 97, 7493-7504.	3.6	40
17	Identification of key factors in Accelerated Low Water Corrosion through experimental simulation of tidal conditions: influence of stimulated indigenous microbiota. Biofouling, 2014, 30, 281-297.	2.2	37
18	Comparison of Ti-5Al-5V-5Mo-3Cr Welds Performed by Laser Beam, Electron Beam and Gas Tungsten Arc Welding. Procedia Engineering, 2013, 63, 397-404.	1.2	36

#	ARTICLE	IF	CITATIONS
19	Formation and characterization of nanotubes of La(OH) ₃ obtained using porous alumina membranes. <i>Nanotechnology</i> , 2008, 19, 495305.	2.6	34
20	Direct sub-nanometer scale electron microscopy analysis of anion incorporation to self-ordered anodic alumina layers. <i>Corrosion Science</i> , 2010, 52, 3763-3773.	6.6	26
21	Laser Hybrid Butt Welding of Large Thickness Naval Steel. <i>Metals</i> , 2019, 9, 100.	2.3	25
22	Experimental and simulation studies on laser conduction welding of AA5083 aluminium alloys. <i>Physics Procedia</i> , 2010, 5, 299-308.	1.2	18
23	Pulsed Laser Welding Applied to Metallic Materials – A Material Approach. <i>Metals</i> , 2021, 11, 640.	2.3	16
24	Influence of Surface Pre-treatments on Laser Welding of Ti6Al4V Alloy. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 1568-1575.	2.5	13
25	Microstructure and Mechanical Properties of Ti5553 Butt Welds Performed by LBW under Conduction Regime. <i>Metals</i> , 2017, 7, 269.	2.3	12
26	Influence of Aerospace Standard Surface Pretreatment on the Intermetallic Phases and CeCC of 2024-T3 Al-Cu Alloy. <i>Metals</i> , 2019, 9, 320.	2.3	12
27	FEM Simulation and Experimental Validation of LBW Under Conduction Regime of Ti6Al4V Alloy. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 3260-3269.	2.5	11
28	Tribocorrosion Study of Ordinary and Laser-Melted Ti6Al4V Alloy. <i>Metals</i> , 2016, 6, 253.	2.3	10
29	Alternativas al cromo en la industria del acabado superficial del aluminio. Tratamientos superficiales de bajo impacto ambiental. <i>Revista De Metalurgia</i> , 2001, 37, 49-62.	0.5	9
30	Influence of CO ₂ -Ar Mixtures as Shielding Gas on Laser Welding of Al-Mg Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 5711-5723.	2.2	8
31	Analysis of the Laser Weldability under Conduction Regime of 2024, 5083, 6082 and 7075 Aluminium Alloys. <i>Materials Science Forum</i> , 0, 713, 7-12.	0.3	6
32	Laser texturization to improve absorption and weld penetration of aluminum alloys. <i>Journal of Laser Applications</i> , 2012, 24, .	1.7	6
33	Springback Estimation in the Hydroforming Process of UNS A92024-T3 Aluminum Alloy by FEM Simulations. <i>Metals</i> , 2018, 8, 404.	2.3	6
34	Effect of process parameters on pulsed laser welding of AA5083 alloy using response surface methodology and pulse shape variation. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 120, 4635-4646.	3.0	6
35	Medida de ruido electroquímico para el estudio de procesos de corrosión de aleaciones metálicas. <i>Revista De Metalurgia</i> , 2009, 45, 142-156.	0.5	5
36	Protection by Thermal and Chemical Activation with Cerium Salts of the Alloy AA2017 in Aqueous Solutions of NaCl. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 182-194.	2.2	4

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37	Results of an international round-robin exercise on electrochemical impedance spectroscopy. Corrosion Engineering Science and Technology, 2021, 56, 254-268.	1.4	4
38	Laser welding of aeronautical and automobile aluminum alloys. , 2012, , .		3
39	Application of Laser Remelting Treatments to Improve the Properties of Ti6Al4V Alloy. Materials Science Forum, 2012, 713, 25-30.	0.3	2
40	The Effects of HLAW Parameters for One Side T-Joints in 15 mm Thickness Naval Steel. Metals, 2021, 11, 600.	2.3	2
41	Application of Laser Texturization to Increase the Depth of AA5083 Welds. Advanced Materials Research, 2012, 498, 37-42.	0.3	1
42	Experimental correlation between metallographic evaluation and electrochemical noise in intergranular corrosion tests of aluminium alloys. Surface and Interface Analysis, 2012, 44, 1279-1286.	1.8	1
43	Aplicación de la Desviación Absoluta de la Mediana (DAM) al análisis de ruido electroquímico. Boletín De La Sociedad Española De Cerámica Y Vidrio, 2004, 43, 206-208.	1.9	1
44	Corrosion-erosion processes of the AA 5083 (Al-Mg) alloy in seawater. Ciencias Marinas, 2003, 29, 405-411.	0.4	1
45	<title>Reinforcement of titanium by laser metal deposition</title>. , 2010, , .		0
46	Reply to comment on "Formation and characterization of nanotubes of La(OH) ₃ obtained using porous alumina membranes"™. Nanotechnology, 2010, 21, 088002.	2.6	0
47	Laser remelting of Ti6AL4V using high power diode laser. , 2012, , .		0
48	Improvements of laser weldability of aluminum alloys by laser texturization. , 2012, , .		0
49	Rationally-Based Structural Design of Welded Plate Panels. Metals, 2021, 11, 1381.	2.3	0
50	Modificaciones de la microestructura y la capa pasiva de la aleación 2024-T3 Al-Cu durante una limpieza química empleada en la industria aeroespacial. Revista De Metalurgia, 2019, 55, 144.	0.5	0