Jose MarÃ-a SÃ¡nchez Amaya

List of Publications by Year
in descending order

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	Effect of process parameters on pulsed laser welding of AA5083 alloy using response surface methodology and pulse shape variation. International Journal of Advanced Manufacturing Technology, 2022, 120, 4635-4646.	3.0	6
2	Results of an international round-robin exercise on electrochemical impedance spectroscopy. Corrosion Engineering Science and Technology, 2021, 56, 254-268.	1.4	4
3	Pulsed Laser Welding Applied to Metallic Materialsâ€"A Material Approach. Metals, 2021, 11, 640.	2.3	16
4	The Effects of HLAW Parameters for One Side T-Joints in 15 mm Thickness Naval Steel. Metals, 2021, 11, 600.	2.3	2
5	Rationally-Based Structural Design of Welded Plate Panels. Metals, 2021, 11, 1381.	2.3	0
6	Influence of Aerospace Standard Surface Pretreatment on the Intermetallic Phases and CeCC of 2024-T3 Al-Cu Alloy. Metals, 2019, 9, 320.	2.3	12
7	Laser Hybrid Butt Welding of Large Thickness Naval Steel. Metals, 2019, 9, 100.	2.3	25
8	Modificaciones de la microestructura y la capa pasiva de la aleaciÃ³n 2024-T3 Al-Cu durante una limpieza quÃmica empleada en la industria aeroespacial. Revista De Metalurgia, 2019, 55, 144.	0.5	0
9	Springback Estimation in the Hydroforming Process of UNS A92024-T3 Aluminum Alloy by FEM Simulations. Metals, 2018, 8, 404.	2.3	6
10	Microstructure and Mechanical Properties of Ti5553 Butt Welds Performed by LBW under Conduction Regime. Metals, 2017, 7, 269.	2.3	12
11	Tribocorrosion Study of Ordinary and Laser-Melted Ti6Al4V Alloy. Metals, 2016, 6, 253.	2.3	10
12	FEM Simulation and Experimental Validation of LBW Under Conduction Regime of Ti6Al4V Alloy. Journal of Materials Engineering and Performance, 2016, 25, 3260-3269.	2.5	11
13	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
14	Reliability of electrochemical noise measurements: Results of round-robin testing on electrochemical noise. Electrochimica Acta, 2014, 120, 379-389.	5.2	41
15	Influence of Surface Pre-treatments on Laser Welding of Ti6Al4V Alloy. Journal of Materials Engineering and Performance, 2014, 23, 1568-1575.	2.5	13
16	Sulfate-reducing bacteria inhabiting natural corrosion deposits from marine steel structures. Applied Microbiology and Biotechnology, 2013, 97, 7493-7504.	3.6	40
17	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
18	Influence of CO2-Ar Mixtures as Shielding Gas on Laser Welding of Al-Mg Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 5711-5723.	2.2	8

#	Article	IF	Citations
19	Application of Laser Texturization to Increase the Depth of AA5083 Welds. Advanced Materials Research, 2012, 498, 37-42.	0.3	1
20	Application of Laser Remelting Treatments to Improve the Properties of Ti6Al4V Alloy. Materials Science Forum, 2012, 713, 25-30.	0.3	2
21	Laser welding of aeronautical and automobile aluminum alloys. , 2012, , .		3
22	Laser remelting of Ti6AL4V using high power diode laser. , 2012, , .		0
23	Improvements of laser weldability of aluminum alloys by laser texturization. , 2012, , .		0
24	Laser texturization to improve absorption and weld penetration of aluminum alloys. Journal of Laser Applications, 2012, 24, .	1.7	6
25	Microstructure, microhardness and corrosion resistance of remelted TiG2 and Ti6Al4V by a high power diode laser. Corrosion Science, 2012, 56, 36-48.	6.6	86
26	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
27	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
28	Protection by Thermal and Chemical Activation with Cerium Salts of the Alloy AA2017 in Aqueous Solutions of NaCl. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 182-194.	2.2	4
29	<title>Reinforcement of titanium by laser metal deposition</title>. , 2010, , .		0
30	Experimental and simulation studies on laser conduction welding of AA5083 aluminium alloys. Physics Procedia, 2010, 5, 299-308.	1.2	18
31	Reply to comment on â€˜Formation and characterization of nanotubes of La(OH)₃obtained using porous alumina membranesâ€™. Nanotechnology, 2010, 21, 088002.	2.6	0
32	Direct sub-nanometer scale electron microscopy analysis of anion incorporation to self-ordered anodic alumina layers. Corrosion Science, 2010, 52, 3763-3773.	6.6	26
33	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
34	Laser welding of aluminium alloys 5083 and 6082 under conduction regime. Applied Surface Science, 2009, 255, 9512-9521.	6.1	88
35	Behaviour of the alloy AA2017 in aqueous solutions of NaCl. Part I: Corrosion mechanisms. Corrosion Science, 2009, 51, 518-524.	6.6	69
36	Single-Step Process To Prepare CeO₂ Nanotubes with Improved Catalytic Activity. Nano Letters, 2009, 9, 1395-1400.	9.1	113

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37	Medida de ruido electroquÃmico para el estudio de procesos de corrosiÃ³n de aleaciones metÃ¡licas. Revista De Metalurgia, 2009, 45, 142-156.	0.5	5
38	Using EIS to analyse samples of Alâ€“Mg alloy AA5083 treated by thermal activation in cerium salt baths. Corrosion Science, 2008, 50, 1376-1384.	6.6	41
39	Formation and characterization of nanotubes of La(OH)3obtained using porous alumina membranes. Nanotechnology, 2008, 19, 495305.	2.6	34
40	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
41	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
42	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
43	Shot noise and statistical parameters for the estimation of corrosion mechanisms. Corrosion Science, 2005, 47, 3280-3299.	6.6	183
44	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
45	AplicaciÃ³n de la DesviaciÃ³n Absoluta de la Mediana (DAM) al anÃ¡lisis de ruido electroquÃmico. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2004, 43, 206-208.	1.9	1
46	Inhibitor properties of â€œgreenâ€•pigments for paints. Progress in Organic Coatings, 2003, 46, 280-287.	3.9	98
47	Corrosion-erosion processes of the AA 5083 (Al-Mg) alloy in seawater. Ciencias Marinas, 2003, 29, 405-411.	0.4	1
48	Use of wavelets to study electrochemical noise transients. Electrochimica Acta, 2001, 46, 2353-2361.	5.2	77
49	Alternativas al cromo en la industria del acabado superficial del aluminio. Tratamientos superficiales de bajo impacto ambiental. Revista De Metalurgia, 2001, 37, 49-62.	0.5	9
50	Analysis of the Laser Weldability under Conduction Regime of 2024, 5083, 6082 and 7075 Aluminium Alloys. Materials Science Forum, 0, 713, 7-12.	0.3	6