

Santiago Fajardo

List of Publications by Year in descending order

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44
papers

2,953
citations

218677

26
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265206

42
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docs citations

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times ranked

2346
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Magnesium Addition and High Energy Processing on the Degradation Behavior of Iron Powder in Modified Hanks™ Solution for Bioabsorbable Implant Applications. <i>Metals</i> , 2022, 12, 78.	2.3	2
2	Corrosion resistance of pulsed laser modified AZ31 Mg alloy surfaces. <i>Journal of Magnesium and Alloys</i> , 2022, 10, 756-768.	11.9	16
3	Corrosion behaviour of resistance-spot-welded high-Mn austenitic TWIP steel. <i>Corrosion Engineering Science and Technology</i> , 2021, 56, 50-59.	1.4	12
4	pH evolution around the AZ31/Steel galvanic couple under gelled-electrolytes: A numerical and experimental study. <i>Corrosion Science</i> , 2021, 178, 109061.	6.6	10
5	Experimental Apparent Stern–Geary Coefficients for AZ31B Mg Alloy in Physiological Body Fluids for Accurate Corrosion Rate Determination. <i>Metals</i> , 2021, 11, 391.	2.3	16
6	The role of the beta-Mg ₁₇ Al ₁₂ phase on the anomalous hydrogen evolution and anodic dissolution of AZ magnesium alloys. <i>Corrosion Science</i> , 2020, 165, 108384.	6.6	38
7	Influence of chromium on the passivity of thermo-mechanically processed high-Mn TWIP steels. <i>Applied Surface Science</i> , 2020, 513, 145852.	6.1	15
8	Titanium Anodization Efficiency Through Real-Time Gravimetric Measurement of Oxygen Evolution. <i>Journal of the Electrochemical Society</i> , 2020, 167, 061507.	2.9	1
9	Understanding the enhanced rates of hydrogen evolution on dissolving magnesium. <i>Electrochemistry Communications</i> , 2019, 104, 106482.	4.7	48
10	Pitting corrosion inhibition of 304 stainless steel in NaCl solution by three newly synthesized carboxylic Schiff bases. <i>Corrosion Science</i> , 2019, 160, 108130.	6.6	59
11	Effect of Mn additions on the corrosion behaviour of TWIP Fe-Mn-Al-Si austenitic steel in chloride solution. <i>Corrosion Science</i> , 2019, 154, 246-253.	6.6	71
12	Anomalous hydrogen evolution on AZ31, AZ61 and AZ91 magnesium alloys in unbuffered sodium chloride solution. <i>Corrosion Science</i> , 2019, 146, 163-171.	6.6	37
13	Anodic activation of Mg in the presence of In ³⁺ ions in dilute sodium chloride solution. <i>Electrochimica Acta</i> , 2019, 293, 199-210.	5.2	17
14	Investigating the Effect of Ferrous Ions on the Anomalous Hydrogen Evolution on Magnesium in Acidic Ferrous Chloride Solution. <i>Journal of the Electrochemical Society</i> , 2018, 165, C916-C925.	2.9	15
15	The Evolution of Anodic Hydrogen on High Purity Magnesium in Acidic Buffer Solution. <i>Corrosion</i> , 2017, 73, 482-493.	1.1	31
16	Fundamentals and advances in magnesium alloy corrosion. <i>Progress in Materials Science</i> , 2017, 89, 92-193.	32.8	1,321
17	A kinetic model explaining the enhanced rates of hydrogen evolution on anodically polarized magnesium in aqueous environments. <i>Electrochemistry Communications</i> , 2017, 84, 36-39.	4.7	35
18	The Source of Anodic Hydrogen Evolution on Ultra High Purity Magnesium. <i>Electrochimica Acta</i> , 2016, 212, 510-521.	5.2	86

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19	Monitoring steel microbiologically induced corrosion using a new electrochemical cell. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2015, 66, 465-471.	1.5	1
20	Introductory lecture on corrosion chemistry: a focus on anodic hydrogen evolution on Al and Mg. <i>Faraday Discussions</i> , 2015, 180, 11-33.	3.2	76
21	Effect of impurities on the enhanced catalytic activity for hydrogen evolution in high purity magnesium. <i>Electrochimica Acta</i> , 2015, 165, 255-267.	5.2	149
22	Corrosion inhibition mechanism of phosphates for early-age reinforced mortar in the presence of chlorides. <i>Cement and Concrete Composites</i> , 2015, 61, 1-6.	10.7	72
23	Gravimetric Method for Hydrogen Evolution Measurements on Dissolving Magnesium. <i>Journal of the Electrochemical Society</i> , 2015, 162, C693-C701.	2.9	74
24	Low energy SIMS characterization of passive oxide films formed on a low-nickel stainless steel in alkaline media. <i>Applied Surface Science</i> , 2014, 288, 423-429.	6.1	37
25	Applications of electrokinetic phenomena in materials science. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 293-307.	2.5	19
26	Corrosion of Steel Embedded in Fly Ash Mortar Using a Transmission Line Model. <i>Journal of the Electrochemical Society</i> , 2014, 161, E3158-E3164.	2.9	8
27	Corrosion behaviour of a Low Ni austenitic stainless steel in carbonated chloride-polluted alkali-activated fly ash mortar. <i>Cement and Concrete Research</i> , 2014, 55, 49-58.	11.0	41
28	Electrochemical study on the corrosion behaviour of a new low-nickel stainless steel in carbonated alkaline solution in the presence of chlorides. <i>Electrochimica Acta</i> , 2014, 129, 160-170.	5.2	129
29	Comparative study of three sodium phosphates as corrosion inhibitors for steel reinforcements. <i>Cement and Concrete Composites</i> , 2013, 43, 31-38.	10.7	71
30	Corrosion rate and corrosion product characterisation using Raman spectroscopy for steel embedded in chloride polluted fly ash mortar. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2013, 64, 372-380.	1.5	32
31	Reaction between sodium monofluorophosphate and portlandite and impact on steel reinforcement corrosion inhibition. <i>Construction and Building Materials</i> , 2012, 37, 46-50.	7.2	18
32	Corrosion Behaviour of a New Low-Nickel Stainless Steel Reinforcement: A Study in Simulated Pore Solutions and in Fly Ash Mortars. <i>International Journal of Corrosion</i> , 2012, 2012, 1-8.	1.1	4
33	Organic corrosion inhibitor mixtures for reinforcing steel embedded in carbonated alkali-activated fly ash mortar. <i>Construction and Building Materials</i> , 2012, 35, 30-37.	7.2	38
34	Corrosion behaviour of a new low-nickel stainless steel embedded in activated fly ash mortars. <i>Cement and Concrete Composites</i> , 2011, 33, 644-652.	10.7	65
35	Corrosion behaviour of a new low-nickel stainless steel in saturated calcium hydroxide solution. <i>Construction and Building Materials</i> , 2011, 25, 4190-4196.	7.2	58
36	Electrochemical characterization of organic coatings for protection of historic steel artefacts. <i>Journal of Solid State Electrochemistry</i> , 2010, 14, 453-463.	2.5	53

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37	Low-nickel stainless steel passive film in simulated concrete pore solution: A SIMS study. Applied Surface Science, 2010, 256, 6139-6143.	6.1	46
38	A prediction study of hydroxyapatite entrapment ability in concrete. Construction and Building Materials, 2010, 24, 2646-2649.	7.2	32
39	Copper deterioration: causes, diagnosis and risk minimisation. International Materials Reviews, 2010, 55, 99-127.	19.3	42
40	An XPS study of tarnishing of a gold mask from a pre-Columbian culture. Corrosion Science, 2008, 50, 1785-1788.	6.6	16
41	Kinetic Study of Formate Compounds Developed on Copper in the Presence of Formic Acid Vapor. Journal of the Electrochemical Society, 2008, 155, C578.	2.9	27
42	Analysis of Copper Diffusion Processes Using Impedance Data. ECS Transactions, 2008, 15, 215-219.	0.5	0
43	A Critical Review of the Application of Electrochemical Techniques for Studying Corrosion of Mg and Mg Alloys: Opportunities and Challenges. , 0, , .		11
44	Aspectos cin�ticos de la corrosi3n y fen3menos de pasividad. , 0, , 11-32.		1