

Mara Cristina Lopes de Oliveira

List of Publications by Year in descending order

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38
docs citations

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times ranked

1671
citing authors

#	ARTICLE	IF	CITATIONS
1	Bipolar Plates in Redox Flow Batteries, Fuel Cells and Electrolyzers. , 2022, , 514-523.		0
2	Effects of Sn, Gd, and Mn additions on the surface chemistry and electrochemical behavior of CuAl-based alloys in sodium chloride solution. Applied Surface Science, 2022, 573, 151488.	3.1	3
3	Graphene-based coatings for magnesium alloys: exploring the correlation between coating architecture, deposition methods, corrosion resistance and materials selection. Corrosion Reviews, 2022, 40, 427-451.	1.0	4
4	Structural Characterization, Global and Local Electrochemical Activity of Electroless Niâ€P-Multiwalled Carbon Nanotube Composite Coatings on Pipeline Steel. Metals, 2021, 11, 982.	1.0	7
5	Interplay between the composition of the passive film and the corrosion resistance of citric acidâ€passivated AISI 316L stainless steel. Surface and Interface Analysis, 2021, 53, 374-384.	0.8	3
6	Corrosion of Al₈₅Ni₉Ce₆ amorphous alloy in the first hours of immersion in 3.5â€wt% NaCl solution: The role of surface chemistry. Surface and Interface Analysis, 2020, 52, 50-62.	0.8	3
7	Stress Corrosion Cracking of Structural Nuclear Materials: Influencing Factors and Materials Selection. Innovations in Corrosion and Materials Science, 2020, 10, 5-24.	0.2	0
8	Investigation on the Relationship between the Surface Chemistry and the Corrosion Resistance of Electrochemically Nitrided AISI 304 Stainless Steel. International Journal of Corrosion, 2019, 2019, 1-12.	0.6	7
9	Effect of silicate-based films on the corrosion behavior of the API 5L X80 pipeline steel. Corrosion Science, 2018, 139, 21-34.	3.0	24
10	Preparation and characterization of copper thin film obtained by metal plasma immersion ion implantation and deposition. Thin Solid Films, 2018, 649, 136-141.	0.8	3
11	Study of the Corrosion Process of AZ91D Magnesium Alloy during the First Hours of Immersion in 3.5â€wt.% NaCl Solution. International Journal of Corrosion, 2018, 2018, 1-20.	0.6	9
12	Surface chemistry and the corrosion behavior of magnetron sputtered niobium oxide films in sulfuric acid solution. Applied Surface Science, 2018, 462, 344-352.	3.1	17
13	Materials Selection of Optimized Titanium Alloys for Aircraft Applications. Materials Research, 2018, 21, .	0.6	42
14	The effect of mechanical polishing and finishing on the corrosion resistance of AISI 304 stainless steel. Corrosion Engineering Science and Technology, 2016, 51, 416-428.	0.7	13
15	Effect of temperature on corrosion and semiconducting properties of oxide films formed on M5 zirconium alloy. Corrosion Engineering Science and Technology, 2016, 51, 104-109.	0.7	4
16	Corrosion of thin, magnetron sputtered Nb 2 O 5 films. Corrosion Science, 2016, 102, 317-325.	3.0	41
17	Effect of surface treatments on the fatigue life of magnesium and its alloys for biomedical applications. , 2015, , 283-310.		3
18	Hydrogen Embrittlement of Zirconium-Based Alloys for Nuclear Fuel Cladding. Innovations in Corrosion and Materials Science, 2015, 4, 96-106.	0.2	2

#	ARTICLE	IF	CITATIONS
19	Structural Characterization and Corrosion Stability of a Si-Doped DLC Coating Applied on Cylinder Liner. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 3926-3933.	1.2	10
20	Corrosion Performance of Anodized AZ91D Magnesium Alloy: Effect of the Anodizing Potential on the Film Structure and Corrosion Behavior. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 593-603.	1.2	23
21	Materials selection for hot stamped automotive body parts: An application of the Ashby approach based on the strain hardening exponent and stacking fault energy of materials. <i>Materials & Design</i> , 2014, 63, 247-256.	5.1	37
22	Sensitization Behavior of Type 409 Ferritic Stainless Steel: Confronting DL-EPR Test and Practice W of ASTM A763. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 2164-2173.	1.2	14
23	Corrosion behavior of polyphenylene sulfide-carbon black-graphite composites for bipolar plates of polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 16405-16418.	3.8	34
24	Corrosion in biomass combustion: A materials selection analysis and its interaction with corrosion mechanisms and mitigation strategies. <i>Corrosion Science</i> , 2013, 76, 6-26.	3.0	137
25	Correlation between the corrosion resistance and the semiconducting properties of the oxide film formed on AZ91D alloy after solution treatment. <i>Corrosion Science</i> , 2013, 69, 311-321.	3.0	31
26	Corrosion and thermal stability of multi-walled carbon nanotube-graphite-acrylonitrile-butadiene-styrene composite bipolar plates for polymer electrolyte membrane fuel cells. <i>Journal of Power Sources</i> , 2013, 221, 345-355.	4.0	28
27	Study of the correlation between corrosion resistance and semi-conducting properties of the passive film of AISI 316L stainless steel in physiological solution. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2012, 63, 586-592.	0.8	20
28	Effect of Passivation Treatments on the Corrosion Resistance of PIM 316L Stainless Steel in a PEM Fuel Cell Simulated Environment. <i>Materials Science Forum</i> , 2012, 727-728, 96-101.	0.3	0
29	Corrosion fatigue of biomedical metallic alloys: Mechanisms and mitigation. <i>Acta Biomaterialia</i> , 2012, 8, 937-962.	4.1	203
30	Materials selection for bipolar plates for polymer electrolyte membrane fuel cells using the Ashby approach. <i>Journal of Power Sources</i> , 2012, 206, 3-13.	4.0	71
31	EIS investigation of the corrosion resistance of uncoated and coated Nd-Fe-B magnets in PBS solution. <i>Journal of the Brazilian Chemical Society</i> , 2011, 22, 264-271.	0.6	2
32	Investigation on the corrosion resistance of carbon black-graphite-poly(vinylidene fluoride) composite bipolar plates for polymer electrolyte membrane fuel cells. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 12474-12485.	3.8	40
33	Carbon materials in composite bipolar plates for polymer electrolyte membrane fuel cells: A review of the main challenges to improve electrical performance. <i>Journal of Power Sources</i> , 2011, 196, 2945-2961.	4.0	238
34	Corrosion of metal bipolar plates for PEM fuel cells: A review. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 3632-3647.	3.8	399
35	Corrosion Processes of Physical Vapor Deposition-Coated Metallic Implants. <i>Critical Reviews in Biomedical Engineering</i> , 2009, 37, 425-460.	0.5	29
36	Effect of molybdate on phosphating of Nd-Fe-B magnets for corrosion protection. <i>Materials Research</i> , 2005, 8, 147-150.	0.6	6

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37	Investigation on the Corrosion Resistance of PIM 316L Stainless Steel in PEM Fuel Cell Simulated Environment. Materials Science Forum, 0, 660-661, 209-214.	0.3	4
38	A review on Corrosion of High Entropy Alloys: Exploring the Interplay Between Corrosion Properties, Alloy Composition, Passive Film Stability and Materials Selection. Materials Research, 0, 25, .	0.6	27