

Francesco Andreatta

List of Publications by Year in descending order

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55
papers

2,048
citations

218677

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docs citations

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times ranked

1669
citing authors

#	ARTICLE	IF	CITATIONS
1	Unexpected failure of cast superduplex stainless steel exposed to high chlorides containing water: From failure analysis to corrosion mechanisms settlement. <i>Engineering Failure Analysis</i> , 2022, 136, 106196.	4.0	5
2	The synergistic effect of cerium acetate and sodium sulphate on corrosion inhibition of AA2024-T3 at various temperatures. <i>Electrochimica Acta</i> , 2021, 370, 137664.	5.2	20
3	Application of Commercial Surface Pretreatments on the Formation of Cerium Conversion Coating (CeCC) over High-Strength Aluminum Alloys 2024-T3 and 7075-T6. <i>Metals</i> , 2021, 11, 930.	2.3	7
4	Depth profiling approach to evaluate the influence of hot stamping on the local electrochemical behaviour and galvanic series of hot-dip Al-Si coating on 22MnB5 steel. <i>Corrosion Science</i> , 2021, 185, 109435.	6.6	9
5	Degradation Mechanisms Occurring in PTFE-Based Coatings Employed in Food-Processing Applications. <i>Coatings</i> , 2021, 11, 1419.	2.6	8
6	The effect of copolymerisation on the performance of acrylate-based hybrid sol-gel coating for corrosion protection of AA2024-T3. <i>Progress in Organic Coatings</i> , 2020, 147, 105701.	3.9	12
7	High temperature study of the evolution of the tribolayer in additively manufactured AISI 316L steel. <i>Additive Manufacturing</i> , 2020, 34, 101258.	3.0	15
8	Corrosion fatigue failure of a high carbon CoCrMo modular hip prosthesis: Failure analysis and electrochemical study. <i>Engineering Failure Analysis</i> , 2019, 105, 856-868.	4.0	21
9	Corrosion and scratch resistance of DLC coatings applied on chromium molybdenum steel. <i>Surface and Coatings Technology</i> , 2019, 378, 124944.	4.8	29
10	Waste olivine and silica sands boost geopolymers' performances: experimental investigation. <i>International Journal of Environmental Studies</i> , 2019, 76, 491-506.	1.6	5
11	Electrochemical behavior of active surface layers in AA8xxx aluminum alloys. <i>Surface and Interface Analysis</i> , 2019, 51, 1240-1250.	1.8	1
12	Study of the synergistic effect of cerium acetate and sodium sulphate on the corrosion inhibition of AA2024-T3. <i>Electrochimica Acta</i> , 2019, 308, 337-349.	5.2	31
13	Corrosion behaviour of 316L stainless steel manufactured by selective laser melting. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 1633-1645.	1.5	52
14	Microstructural and in-depth electrochemical characterization of Zn diffusion layers on aluminum 3xxx alloy. <i>Surface and Interface Analysis</i> , 2019, 51, 1165-1172.	1.8	5
15	Corrosion protection by zinc-magnesium coatings on steel studied by electrochemical methods. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 793-801.	1.5	4
16	Microstructural and local electrochemical characterisation of Gr. 91 steel-welded joints as function of post-weld heat treatments. <i>Corrosion Science</i> , 2019, 148, 407-417.	6.6	19
17	Corrosion behaviour and chemical stability of transparent hybrid sol-gel coatings deposited on aluminium in acidic and alkaline solutions. <i>Progress in Organic Coatings</i> , 2018, 124, 286-295.	3.9	33
18	Synthesis and characterization of geopolymers containing blends of unprocessed steel slag and metakaolin: The role of slag particle size. <i>Ceramics International</i> , 2018, 44, 5226-5232.	4.8	48

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19	Stability of benzotriazole-based films against AA2024 aluminium alloy corrosion process in neutral chloride electrolyte. <i>Journal of Alloys and Compounds</i> , 2018, 735, 2512-2522.	5.5	34
20	Failure analysis of a plate heat exchanger used in a blast chiller. <i>Engineering Failure Analysis</i> , 2018, 92, 289-300.	4.0	11
21	The Use of Electrochemical Techniques for the Characterization of the Corrosion Behavior of Solâ€“Gel-Coated Metals. , 2018, , 1783-1831.		0
22	Characterization of selfâ€“assembled layers made with stearic acid, benzotriazole, or 2â€“mercaptobenzimidazole on surface of copper for corrosion protection in simulated urban rain. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2017, 68, 30-41.	1.5	16
23	Galvanic corrosion of the seam weld in Znâ€“Al coated steel pipes manufactured by electric resistance welding. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2017, 68, 368-375.	1.5	4
24	Production and Compression Strength of Mortars Containing Unprocessed Waste Powdered Steel Slag. <i>Sustainability</i> , 2017, 9, 2372.	3.2	6
25	Corrosion behaviour of austenitic and duplex stainless steels in an industrial strongly acidic solution. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2016, 67, 831-838.	1.5	18
26	Oxidation of neodymium precipitates in a Ti6Al4V2Nd alloy in sodium chloride solution. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2016, 67, 277-285.	1.5	2
27	Corrosion behaviour of AA8xxx aluminium fins in heat exchangers. <i>Surface and Interface Analysis</i> , 2016, 48, 789-797.	1.8	9
28	The use of the electrochemical micro-cell for the investigation of corrosion phenomena. <i>Electrochimica Acta</i> , 2016, 203, 337-349.	5.2	43
29	Cerium conversion coating and solâ€“gel multilayer system for corrosion protection of AA6060. <i>Surface and Coatings Technology</i> , 2016, 287, 33-43.	4.8	43
30	The Use of Electrochemical Techniques for the Characterization of the Corrosion Behavior of Solâ€“Gel-Coated Metals. , 2016, , 1-49.		0
31	A localized approach to study the effect of cerium salts as cathodic inhibitor on iron/aluminum galvanic coupling. <i>Corrosion Science</i> , 2015, 90, 491-502.	6.6	42
32	Investigation of AA2024-T3 surfaces modified by cerium compounds: A localized approach. <i>Corrosion Science</i> , 2014, 78, 215-222.	6.6	51
33	Addition of phosphates or copper nitrate in a fluotitanate conversion coating containing a silane coupling agent for aluminium alloy AA6014. <i>Progress in Organic Coatings</i> , 2014, 77, 2107-2115.	3.9	25
34	Volta potential of clad AA2024 aluminium after exposure to CeCl3 solution. <i>Corrosion Science</i> , 2014, 86, 189-201.	6.6	22
35	Mechanism of corrosion protection of hot-dip aluminiumâ€“silicon coatings on steel studied by electrochemical depth profiling. <i>Corrosion Science</i> , 2013, 76, 325-336.	6.6	37
36	Localized corrosion inhibition by cerium species on clad AA2024 aluminium alloy investigated by means of electrochemical micro-cell. <i>Corrosion Science</i> , 2012, 65, 376-386.	6.6	47

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37	Study of the effect of cerium nitrate on AA2024-T3 by means of electrochemical micro-cell technique. <i>Electrochimica Acta</i> , 2012, 70, 25-33.	5.2	64
38	Electrochemical study of Aluminum-Fly Ash composites obtained by powder metallurgy. <i>Materials Characterization</i> , 2012, 69, 16-30.	4.4	42
39	ZrO ₂ sol-gel pre-treatments doped with cerium nitrate for the corrosion protection of AA6060. <i>Progress in Organic Coatings</i> , 2012, 74, 311-319.	3.9	32
40	Development and industrial scale-up of ZrO ₂ coatings and hybrid organic-inorganic coatings used as pre-treatments before painting aluminium alloys. <i>Progress in Organic Coatings</i> , 2011, 72, 3-14.	3.9	41
41	Atomic layer deposition: state-of-the-art and research/industrial perspectives. <i>Corrosion Reviews</i> , 2011, 29, .	2.0	33
42	Corrosion behaviour of sol-gel treated and painted AA2024 aluminium alloy. <i>Progress in Organic Coatings</i> , 2010, 69, 133-142.	3.9	35
43	Optimization of hybrid sol-gel coatings by combination of layers with complementary properties for corrosion protection of AA2024. <i>Progress in Organic Coatings</i> , 2010, 69, 167-174.	3.9	60
44	Critical aspects in the electrochemical study of unstable coated metallic substrates. <i>Progress in Organic Coatings</i> , 2010, 69, 225-234.	3.9	3
45	Water-based ZrO ₂ pretreatment for AA2024 aluminum alloy. <i>Surface and Interface Analysis</i> , 2010, 42, 293-298.	1.8	17
46	Inhibition effect of cerium in hybrid sol-gel films on aluminium alloy AA2024. <i>Surface and Interface Analysis</i> , 2010, 42, 299-305.	1.8	48
47	SAE 1045 steel/WC-Co/Ni-Cu-Ni/SAE 1045 steel joints prepared by dynamic diffusion bonding: Microelectrochemical studies in 0.6 M NaCl solution. <i>Electrochimica Acta</i> , 2009, 55, 551-559.	5.2	15
48	Heat exchangers corrosion protection by using organic coatings. <i>Progress in Organic Coatings</i> , 2008, 63, 299-306.	3.9	25
49	Use of scanning Kelvin probe force microscopy and microcapillary cell to investigate local corrosion behaviour of 7xxx aluminium alloys. , 2007, , 126-136.		2
50	SKPFM and SEM study of the deposition mechanism of Zr/Ti based pre-treatment on AA6016 aluminum alloy. <i>Surface and Coatings Technology</i> , 2007, 201, 7668-7685.	4.8	120
51	Electrochemical behaviour of ZrO ₂ sol-gel pre-treatments on AA6060 aluminium alloy. <i>Electrochimica Acta</i> , 2007, 52, 7545-7555.	5.2	59
52	Volta potential of second phase particles in extruded AZ80 magnesium alloy. <i>Electrochimica Acta</i> , 2006, 51, 3551-3557.	5.2	115
53	Corrosion behaviour of different tempers of AA7075 aluminium alloy. <i>Electrochimica Acta</i> , 2004, 49, 2851-2862.	5.2	282
54	Electrochemical characterisation of aluminium AA7075-T6 and solution heat treated AA7075 using a micro-capillary cell. <i>Electrochimica Acta</i> , 2003, 48, 3239-3247.	5.2	163

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55	Effect of solution heat treatment on galvanic coupling between intermetallics and matrix in AA7075-T6. Corrosion Science, 2003, 45, 1733-1746.	6.6	158