

# Francesco Andreatta

## List of Publications by Year in descending order

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55  
papers

2,048  
citations

218677

26  
h-index

243625

44  
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55  
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55  
docs citations

55  
times ranked

1669  
citing authors

#	ARTICLE	IF	CITATIONS
1	Corrosion behaviour of different tempers of AA7075 aluminium alloy. <i>Electrochimica Acta</i> , 2004, 49, 2851-2862.	5.2	282
2	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
3	Effect of solution heat treatment on galvanic coupling between intermetallics and matrix in AA7075-T6. <i>Corrosion Science</i> , 2003, 45, 1733-1746.	6.6	158
4	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
5	Volta potential of second phase particles in extruded AZ80 magnesium alloy. <i>Electrochimica Acta</i> , 2006, 51, 3551-3557.	5.2	115
6	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
7	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
8	Electrochemical behaviour of ZrO <sub>2</sub> sol-gel pre-treatments on AA6060 aluminium alloy. <i>Electrochimica Acta</i> , 2007, 52, 7545-7555.	5.2	59
9	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
10	Investigation of AA2024-T3 surfaces modified by cerium compounds: A localized approach. <i>Corrosion Science</i> , 2014, 78, 215-222.	6.6	51
11	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
12	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
13	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
14	The use of the electrochemical micro-cell for the investigation of corrosion phenomena. <i>Electrochimica Acta</i> , 2016, 203, 337-349.	5.2	43
15	Cerium conversion coating and sol-gel multilayer system for corrosion protection of AA6060. <i>Surface and Coatings Technology</i> , 2016, 287, 33-43.	4.8	43
16	Electrochemical study of Aluminum-Fly Ash composites obtained by powder metallurgy. <i>Materials Characterization</i> , 2012, 69, 16-30.	4.4	42
17	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
18	Development and industrial scale-up of ZrO <sub>2</sub> 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

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19	Mechanism of corrosion protection of hot-dip aluminium-silicon coatings on steel studied by electrochemical depth profiling. <i>Corrosion Science</i> , 2013, 76, 325-336.	6.6	37
20	Corrosion behaviour of sol-gel treated and painted AA2024 aluminium alloy. <i>Progress in Organic Coatings</i> , 2010, 69, 133-142.	3.9	35
21	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
22	Atomic layer deposition: state-of-the-art and research/industrial perspectives. <i>Corrosion Reviews</i> , 2011, 29, .	2.0	33
23	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
24	ZrO <sub>2</sub> 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
25	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
26	Corrosion and scratch resistance of DLC coatings applied on chromium molybdenum steel. <i>Surface and Coatings Technology</i> , 2019, 378, 124944.	4.8	29
27	Heat exchangers corrosion protection by using organic coatings. <i>Progress in Organic Coatings</i> , 2008, 63, 299-306.	3.9	25
28	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
29	Volta potential of clad AA2024 aluminium after exposure to CeCl <sub>3</sub> solution. <i>Corrosion Science</i> , 2014, 86, 189-201.	6.6	22
30	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
31	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
32	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
33	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
34	Water-based ZrO <sub>2</sub> pretreatment for AA2024 aluminum alloy. <i>Surface and Interface Analysis</i> , 2010, 42, 293-298.	1.8	17
35	Characterization of self-assembled layers made with stearic acid, benzotriazole, or 2-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
36	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

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37	High temperature study of the evolution of the tribolayer in additively manufactured AISI 316L steel. Additive Manufacturing, 2020, 34, 101258.	3.0	15
38	The effect of copolymerisation on the performance of acrylate-based hybrid sol-gel coating for corrosion protection of AA2024-T3. Progress in Organic Coatings, 2020, 147, 105701.	3.9	12
39	Failure analysis of a plate heat exchanger used in a blast chiller. Engineering Failure Analysis, 2018, 92, 289-300.	4.0	11
40	Corrosion behaviour of AA8xxx aluminium fins in heat exchangers. Surface and Interface Analysis, 2016, 48, 789-797.	1.8	9
41	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. Corrosion Science, 2021, 185, 109435.	6.6	9
42	Degradation Mechanisms Occurring in PTFE-Based Coatings Employed in Food-Processing Applications. Coatings, 2021, 11, 1419.	2.6	8
43	Application of Commercial Surface Pretreatments on the Formation of Cerium Conversion Coating (CeCC) over High-Strength Aluminum Alloys 2024-T3 and 7075-T6. Metals, 2021, 11, 930.	2.3	7
44	Production and Compression Strength of Mortars Containing Unprocessed Waste Powdered Steel Slag. Sustainability, 2017, 9, 2372.	3.2	6
45	Waste olivine and silica sands boost geopolymers' performances: experimental investigation. International Journal of Environmental Studies, 2019, 76, 491-506.	1.6	5
46	Microstructural and in-depth electrochemical characterization of Zn diffusion layers on aluminum 3xxx alloy. Surface and Interface Analysis, 2019, 51, 1165-1172.	1.8	5
47	Unexpected failure of cast superduplex stainless steel exposed to high chlorides containing water: From failure analysis to corrosion mechanisms settlement. Engineering Failure Analysis, 2022, 136, 106196.	4.0	5
48	Galvanic corrosion of the seam weld in Zn-Al coated steel pipes manufactured by electric resistance welding. Materials and Corrosion - Werkstoffe Und Korrosion, 2017, 68, 368-375.	1.5	4
49	Corrosion protection by zinc-magnesium coatings on steel studied by electrochemical methods. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 793-801.	1.5	4
50	Critical aspects in the electrochemical study of unstable coated metallic substrates. Progress in Organic Coatings, 2010, 69, 225-234.	3.9	3
51	Use of scanning Kelvin probe force microscopy and microcapillary cell to investigate local corrosion behaviour of 7xxx aluminium alloys. , 2007, , 126-136.		2
52	Oxidation of neodymium precipitates in a Ti6Al4V2Nd alloy in sodium chloride solution. Materials and Corrosion - Werkstoffe Und Korrosion, 2016, 67, 277-285.	1.5	2
53	Electrochemical behavior of active surface layers in AA8xxx aluminum alloys. Surface and Interface Analysis, 2019, 51, 1240-1250.	1.8	1
54	The Use of Electrochemical Techniques for the Characterization of the Corrosion Behavior of Sol-Gel-Coated Metals. , 2016, , 1-49.		0

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55	The Use of Electrochemical Techniques for the Characterization of the Corrosion Behavior of Solâ€Gel-Coated Metals. , 2018, , 1783-1831.		0