

M G Ferreira

List of Publications by Year in descending order

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332
papers

22,655
citations

4942

84
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10708

138
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339
docs citations

339
times ranked

10032
citing authors

#	ARTICLE	IF	CITATIONS
1	Layer-by-Layer Assembled Nanocontainers for Self-Healing Corrosion Protection. <i>Advanced Materials</i> , 2006, 18, 1672-1678.	11.1	653
2	Anticorrosion Coatings with Self-Healing Effect Based on Nanocontainers Impregnated with Corrosion Inhibitor. <i>Chemistry of Materials</i> , 2007, 19, 402-411.	3.2	556
3	Nanostructured sol-gel coatings doped with cerium nitrate as pre-treatments for AA2024-T3. <i>Electrochimica Acta</i> , 2005, 51, 208-217.	2.6	498
4	Active protection coatings with layered double hydroxide nanocontainers of corrosion inhibitor. <i>Corrosion Science</i> , 2010, 52, 602-611.	3.0	456
5	Sol-gel coatings for corrosion protection of metals. <i>Journal of Materials Chemistry</i> , 2005, 15, 5099.	6.7	454
6	Chloride-induced corrosion on reinforcing steel: from the fundamentals to the monitoring techniques. <i>Cement and Concrete Composites</i> , 2003, 25, 491-502.	4.6	398
7	Active Anticorrosion Coatings with Halloysite Nanocontainers. <i>Journal of Physical Chemistry C</i> , 2008, 112, 958-964.	1.5	340
8	Smart coatings for active corrosion protection based on multi-functional micro and nanocontainers. <i>Electrochimica Acta</i> , 2012, 82, 314-323.	2.6	340
9	Triazole and thiazole derivatives as corrosion inhibitors for AA2024 aluminium alloy. <i>Corrosion Science</i> , 2005, 47, 3368-3383.	3.0	324
10	Mechanism of Corrosion Inhibition of AA2024 by Rare-Earth Compounds. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5515-5528.	1.2	315
11	Enhancement of Active Corrosion Protection via Combination of Inhibitor-Loaded Nanocontainers. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 1528-1535.	4.0	302
12	High effective organic corrosion inhibitors for 2024 aluminium alloy. <i>Electrochimica Acta</i> , 2007, 52, 7231-7247.	2.6	287
13	Nanoporous titania interlayer as reservoir of corrosion inhibitors for coatings with self-healing ability. <i>Progress in Organic Coatings</i> , 2007, 58, 127-135.	1.9	280
14	Semiconducting Properties of Passive Films Formed on Stainless Steels: Influence of the Alloying Elements. <i>Journal of the Electrochemical Society</i> , 1998, 145, 3821-3829.	1.3	277
15	Novel Inorganic Host Layered Double Hydroxides Intercalated with Guest Organic Inhibitors for Anticorrosion Applications. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 2353-2362.	4.0	277
16	Study of Passive Films Formed on AISI 304 Stainless Steel by Impedance Measurements and Photoelectrochemistry. <i>Journal of the Electrochemical Society</i> , 1990, 137, 82-87.	1.3	268
17	Role of intermetallic phases in localized corrosion of AA5083. <i>Electrochimica Acta</i> , 2007, 52, 7651-7659.	2.6	267
18	Evaluation of self-healing ability in protective coatings modified with combinations of layered double hydroxides and cerium molybdate nanocontainers filled with corrosion inhibitors. <i>Electrochimica Acta</i> , 2012, 60, 31-40.	2.6	263

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19	Corrosion protective properties of nanostructured sol-gel hybrid coatings to AA2024-T3. <i>Surface and Coatings Technology</i> , 2006, 200, 3084-3094.	2.2	253
20	Novel hybrid sol-gel coatings for corrosion protection of AZ31B magnesium alloy. <i>Electrochimica Acta</i> , 2008, 53, 4773-4783.	2.6	253
21	Chemical composition and corrosion protection of silane films modified with CeO ₂ nanoparticles. <i>Electrochimica Acta</i> , 2009, 54, 5179-5189.	2.6	245
22	Zn-Al layered double hydroxides as chloride nanotraps in active protective coatings. <i>Corrosion Science</i> , 2012, 55, 1-4.	3.0	242
23	The passive behaviour of AISI 316 in alkaline media and the effect of pH: A combined electrochemical and analytical study. <i>Electrochimica Acta</i> , 2010, 55, 6174-6181.	2.6	220
24	Electrochemical assessment of the self-healing properties of Ce-doped silane solutions for the pre-treatment of galvanised steel substrates. <i>Progress in Organic Coatings</i> , 2005, 54, 276-284.	1.9	218
25	The electrochemical behaviour of stainless steel AISI 304 in alkaline solutions with different pH in the presence of chlorides. <i>Electrochimica Acta</i> , 2011, 56, 5280-5289.	2.6	213
26	Silanes and rare earth salts as chromate replacers for pre-treatments on galvanised steel. <i>Electrochimica Acta</i> , 2004, 49, 2927-2935.	2.6	211
27	Electrochemical study of modified bis-[triethoxysilylpropyl] tetrasulfide silane films applied on the AZ31 Mg alloy. <i>Electrochimica Acta</i> , 2007, 52, 7486-7495.	2.6	208
28	Silica nanocontainers for active corrosion protection. <i>Nanoscale</i> , 2012, 4, 1287.	2.8	205
29	Semiconducting properties of thermally grown oxide films on AISI 304 stainless steel. <i>Corrosion Science</i> , 2000, 42, 687-702.	3.0	202
30	Chemical composition and electronic structure of the oxide films formed on 316L stainless steel and nickel based alloys in high temperature aqueous environments. <i>Corrosion Science</i> , 2000, 42, 1635-1650.	3.0	191
31	Hydroxyapatite Microparticles as Feedback-Active Reservoirs of Corrosion Inhibitors. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 3011-3022.	4.0	187
32	Electrochemical study of inhibitor-containing organic-inorganic hybrid coatings on AA2024. <i>Corrosion Science</i> , 2009, 51, 1012-1021.	3.0	186
33	Influence of inhibitor addition on the corrosion protection performance of sol-gel coatings on AA2024. <i>Progress in Organic Coatings</i> , 2008, 63, 352-361.	1.9	181
34	Oxide nanoparticle reservoirs for storage and prolonged release of the corrosion inhibitors. <i>Electrochemistry Communications</i> , 2005, 7, 836-840.	2.3	177
35	Nanostructured LDH-container layer with active protection functionality. <i>Journal of Materials Chemistry</i> , 2011, 21, 15464.	6.7	174
36	The use of pre-treatments based on doped silane solutions for improved corrosion resistance of galvanised steel substrates. <i>Surface and Coatings Technology</i> , 2006, 200, 4240-4250.	2.2	167

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37	Use of SVET and SECM to study the galvanic corrosion of an iron-zinc cell. <i>Corrosion Science</i> , 2007, 49, 726-739.	3.0	167
38	Hybrid epoxy-silane coatings for improved corrosion protection of Mg alloy. <i>Corrosion Science</i> , 2013, 67, 82-90.	3.0	162
39	Sol-gel coatings modified with zeolite fillers for active corrosion protection of AA2024. <i>Corrosion Science</i> , 2012, 62, 153-162.	3.0	159
40	Corrosion inhibition by chromate and phosphate extracts for iron substrates studied by EIS and SVET. <i>Corrosion Science</i> , 2006, 48, 1500-1512.	3.0	158
41	Influence of incorporated Mo and Nb on the Mott-Schottky behaviour of anodic films formed on AISI 304L. <i>Corrosion Science</i> , 2010, 52, 2813-2818.	3.0	156
42	The corrosion resistance of hot dip galvanised steel and AA2024-T3 pre-treated with bis-[triethoxysilylpropyl] tetrasulfide solutions doped with Ce(NO ₃) ₃ . <i>Corrosion Science</i> , 2006, 48, 3740-3758.	3.0	155
43	Inhibitor-doped sol-gel coatings for corrosion protection of magnesium alloy AZ31. <i>Surface and Coatings Technology</i> , 2010, 204, 1479-1486.	2.2	155
44	Chemical Composition of Passive Films on AISI 304 Stainless Steel. <i>Journal of the Electrochemical Society</i> , 1994, 141, 3347-3356.	1.3	147
45	Cerium salt activated nanoparticles as fillers for silane films: Evaluation of the corrosion inhibition performance on galvanised steel substrates. <i>Electrochimica Acta</i> , 2007, 52, 6976-6987.	2.6	147
46	Complex anticorrosion coating for ZK30 magnesium alloy. <i>Electrochimica Acta</i> , 2009, 55, 131-141.	2.6	145
47	The role of Mo in the chemical composition and semiconductive behaviour of oxide films formed on stainless steels. <i>Corrosion Science</i> , 1999, 41, 17-34.	3.0	142
48	Smart coating based on double stimuli-responsive microcapsules containing linseed oil and benzotriazole for active corrosion protection. <i>Corrosion Science</i> , 2018, 130, 56-63.	3.0	140
49	Self-healing protective coatings with green-chitosan based pre-layer reservoir of corrosion inhibitor. <i>Journal of Materials Chemistry</i> , 2011, 21, 4805.	6.7	134
50	Influence of preparation conditions of Layered Double Hydroxide conversion films on corrosion protection. <i>Electrochimica Acta</i> , 2014, 117, 164-171.	2.6	134
51	Electrochemical and analytical investigation of passive films formed on stainless steels in alkaline media. <i>Cement and Concrete Composites</i> , 2012, 34, 1075-1081.	4.6	131
52	Influence of the temperature of film formation on the electronic structure of oxide films formed on 304 stainless steel. <i>Electrochimica Acta</i> , 2001, 46, 3767-3776.	2.6	126
53	Analytical characterization of silane films modified with cerium activated nanoparticles and its relation with the corrosion protection of galvanised steel substrates. <i>Progress in Organic Coatings</i> , 2008, 63, 330-337.	1.9	124
54	On the application of electrochemical impedance spectroscopy to study the self-healing properties of protective coatings. <i>Electrochemistry Communications</i> , 2007, 9, 2622-2628.	2.3	123

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55	The synergistic combination of bis-silane and CeO ₂ -ZrO ₂ nanoparticles on the electrochemical behaviour of galvanised steel in NaCl solutions. <i>Electrochimica Acta</i> , 2008, 53, 5913-5922.	2.6	120
56	Anodising of Al 2024-T3 in a modified sulphuric acid/boric acid bath for aeronautical applications. <i>Corrosion Science</i> , 2003, 45, 149-160.	3.0	119
57	Monitoring local spatial distribution of Mg ²⁺ , pH and ionic currents. <i>Electrochemistry Communications</i> , 2008, 10, 259-262.	2.3	118
58	Localized electrochemical study of corrosion inhibition in microdefects on coated AZ31 magnesium alloy. <i>Electrochimica Acta</i> , 2010, 55, 5401-5406.	2.6	117
59	TiO _x self-assembled networks prepared by templating approach as nanostructured reservoirs for self-healing anticorrosion pre-treatments. <i>Electrochemistry Communications</i> , 2006, 8, 421-428.	2.3	116
60	Chitosan-based self-healing protective coatings doped with cerium nitrate for corrosion protection of aluminum alloy 2024. <i>Progress in Organic Coatings</i> , 2012, 75, 8-13.	1.9	116
61	Composition and corrosion behaviour of galvanised steel treated with rare-earth salts: the effect of the cation. <i>Progress in Organic Coatings</i> , 2002, 44, 111-120.	1.9	115
62	Sol-gel/Polyelectrolyte Active Corrosion Protection System. <i>Advanced Functional Materials</i> , 2008, 18, 3137-3147.	7.8	115
63	Composition and behaviour of cerium films on galvanised steel. <i>Progress in Organic Coatings</i> , 2001, 43, 274-281.	1.9	111
64	The combined use of scanning vibrating electrode technique and micro-potentiometry to assess the self-repair processes in defects on "smart" coatings applied to galvanized steel. <i>Electrochimica Acta</i> , 2011, 56, 4475-4488.	2.6	111
65	Modification of bis-silane solutions with rare-earth cations for improved corrosion protection of galvanized steel substrates. <i>Progress in Organic Coatings</i> , 2006, 57, 67-77.	1.9	109
66	Corrosion behaviour of rebars in fly ash mortar exposed to carbon dioxide and chlorides. <i>Cement and Concrete Composites</i> , 2002, 24, 45-53.	4.6	108
67	The corrosion resistance of hot dip galvanized steel pretreated with Bis-functional silanes modified with microsilica. <i>Surface and Coatings Technology</i> , 2006, 200, 2875-2885.	2.2	103
68	Corrosion protection of AA2024 by sol-gel coatings modified with MBT-loaded polyurea microcapsules. <i>Chemical Engineering Journal</i> , 2016, 283, 1108-1117.	6.6	103
69	Comparative electrochemical studies of zinc chromate and zinc phosphate as corrosion inhibitors for zinc. <i>Progress in Organic Coatings</i> , 2005, 52, 339-350.	1.9	101
70	A comparative study on the corrosion resistance of AA2024-T3 substrates pre-treated with different silane solutions. <i>Progress in Organic Coatings</i> , 2005, 54, 322-331.	1.9	99
71	Composition and corrosion resistance of cerium conversion films on the AZ31 magnesium alloy and its relation to the salt anion. <i>Applied Surface Science</i> , 2008, 254, 1806-1814.	3.1	99
72	An electrochemical and analytical approach to the inhibition mechanism of an amino-alcohol-based corrosion inhibitor for reinforced concrete. <i>Electrochimica Acta</i> , 2003, 48, 3509-3518.	2.6	98

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73	Ranking high-quality paint systems using EIS. Part I: intact coatings. <i>Corrosion Science</i> , 2003, 45, 123-138.	3.0	98
74	Highlights during the development of electrochemical engineering. <i>Chemical Engineering Research and Design</i> , 2013, 91, 1998-2020.	2.7	97
75	Active protective PEO coatings on AA2024: Role of voltage on in-situ LDH growth. <i>Materials and Design</i> , 2017, 120, 36-46.	3.3	97
76	E.I.S. evaluation of attached and free polymer films. <i>Progress in Organic Coatings</i> , 2000, 38, 1-7.	1.9	96
77	Multiprobe chloride sensor for in situ monitoring of reinforced concrete structures. <i>Cement and Concrete Composites</i> , 2006, 28, 233-236.	4.6	96
78	Corrosion protection of AA2024-T3 by LDH conversion films. Analysis of SVET results. <i>Electrochimica Acta</i> , 2016, 210, 215-224.	2.6	96
79	The electronic properties of sputtered chromium and iron oxide films. <i>Corrosion Science</i> , 2004, 46, 1479-1499.	3.0	95
80	High-density antimicrobial peptide coating with broad activity and low cytotoxicity against human cells. <i>Acta Biomaterialia</i> , 2016, 33, 64-77.	4.1	93
81	Plasma anodized ZE41 magnesium alloy sealed with hybrid epoxy-silane coating. <i>Corrosion Science</i> , 2013, 73, 300-308.	3.0	90
82	Interlayer intercalation and arrangement of 2-mercaptobenzothiazolate and 1,2,3-benzotriazololate anions in layered double hydroxides: In situ X-ray diffraction study. <i>Journal of Solid State Chemistry</i> , 2016, 233, 158-165.	1.4	90
83	Electrochemical behaviour of amino alcohol-based inhibitors used to control corrosion of reinforcing steel. <i>Electrochimica Acta</i> , 2004, 49, 2753-2760.	2.6	87
84	Analytical characterisation and corrosion behaviour of bis-[triethoxysilylpropyl]tetrasulphide pre-treated AA2024-T3. <i>Corrosion Science</i> , 2005, 47, 869-881.	3.0	87
85	Review "On the Application of the Scanning Vibrating Electrode Technique (SVET) to Corrosion Research. <i>Journal of the Electrochemical Society</i> , 2017, 164, C973-C990.	1.3	87
86	An electrochemical and analytical assessment on the early corrosion behaviour of galvanised steel pretreated with aminosilanes. <i>Surface and Coatings Technology</i> , 2005, 192, 284-290.	2.2	86
87	Electrodeposition and characterization of polypyrrole films on aluminium alloy 6061-T6. <i>Electrochimica Acta</i> , 2008, 53, 4754-4763.	2.6	86
88	Active corrosion protection coating for a ZE41 magnesium alloy created by combining PEO and sol-gel techniques. <i>RSC Advances</i> , 2016, 6, 12553-12560.	1.7	84
89	Laser alloying of aluminium alloys with chromium. <i>Surface and Coatings Technology</i> , 1995, 70, 221-229.	2.2	83
90	Polyelectrolyte-modified layered double hydroxide nanocontainers as vehicles for combined inhibitors. <i>RSC Advances</i> , 2015, 5, 39916-39929.	1.7	82

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91	Active corrosion protection of AA2024 by sol-gel coatings with cerium molybdate nanowires. <i>Electrochimica Acta</i> , 2013, 112, 236-246.	2.6	78
92	Localized corrosion of laser surface melted 2024-T351 aluminium alloy. <i>Surface and Coatings Technology</i> , 1996, 81, 290-296.	2.2	76
93	Chemical composition and semiconducting behaviour of stainless steel passive films in contact with artificial seawater. <i>Corrosion Science</i> , 1998, 40, 481-494.	3.0	76
94	Analytical Characterization of the Passive Film Formed on Steel in Solutions Simulating the Concrete Interstitial Electrolyte. <i>Corrosion</i> , 1998, 54, 347-353.	0.5	76
95	Sealing of tartaric sulfuric (TSA) anodized AA2024 with nanostructured LDH layers. <i>RSC Advances</i> , 2016, 6, 13942-13952.	1.7	76
96	A novel bilayer system comprising LDH conversion layer and sol-gel coating for active corrosion protection of AA2024. <i>Corrosion Science</i> , 2018, 143, 299-313.	3.0	76
97	Synergistic corrosion inhibition on galvanically coupled metallic materials. <i>Electrochemistry Communications</i> , 2012, 20, 101-104.	2.3	75
98	Chitosan as a smart coating for corrosion protection of aluminum alloy 2024: A review. <i>Progress in Organic Coatings</i> , 2015, 89, 348-356.	1.9	75
99	The corrosion performance of organosilane based pre-treatments for coatings on galvanised steel. <i>Progress in Organic Coatings</i> , 2000, 38, 17-26.	1.9	74
100	Electrochemical and analytical study of corrosion inhibition on carbon steel in HCl medium by 1,12-bis(1,2,4-triazolyl)dodecane. <i>Corrosion Science</i> , 2005, 47, 447-459.	3.0	74
101	Electrochemical Studies of the Passive Film on 316 Stainless Steel in Chloride Media. <i>Journal of the Electrochemical Society</i> , 1985, 132, 760-765.	1.3	73
102	Preparation and corrosion protective properties of nanostructured titania-containing hybrid sol-gel coatings on AA2024. <i>Progress in Organic Coatings</i> , 2008, 62, 226-235.	1.9	73
103	Analytical characterisation and corrosion behaviour of bis-aminosilane coatings modified with carbon nanotubes activated with rare-earth salts applied on AZ31 Magnesium alloy. <i>Surface and Coatings Technology</i> , 2008, 202, 4766-4774.	2.2	72
104	Nanocontainer-based corrosion sensing coating. <i>Nanotechnology</i> , 2013, 24, 415502.	1.3	70
105	Corrosion behaviour of reinforcing steel exposed to an amino alcohol based corrosion inhibitor. <i>Cement and Concrete Composites</i> , 2005, 27, 671-678.	4.6	68
106	Chemical composition and electronic structure of passive films formed on Alloy 600 in acidic solution. <i>Corrosion Science</i> , 2008, 50, 676-686.	3.0	68
107	Incorporation of biocides in nanocapsules for protective coatings used in maritime applications. <i>Chemical Engineering Journal</i> , 2015, 270, 150-157.	6.6	68
108	Fault-tolerant hybrid epoxy-silane coating for corrosion protection of magnesium alloy AZ31. <i>Progress in Organic Coatings</i> , 2015, 80, 98-105.	1.9	67

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109	PEO Coatings with Active Protection Based on In-Situ Formed LDH-Nanocontainers. Journal of the Electrochemical Society, 2017, 164, C36-C45.	1.3	67
110	Control of crystallite and particle size in the synthesis of layered double hydroxides: Macromolecular insights and a complementary modeling tool. Journal of Colloid and Interface Science, 2016, 468, 86-94.	5.0	66
111	The corrosion behaviour of rare-earth containing magnesium alloys in borate buffer solution. Electrochimica Acta, 2011, 56, 1535-1545.	2.6	65
112	Layered double hydroxides (LDHs) as functional materials for the corrosion protection of aluminum alloys: A review. Applied Materials Today, 2020, 21, 100857.	2.3	65
113	A comparative study of co-precipitation and sol-gel synthetic approaches to fabricate cerium-substituted Mg Al layered double hydroxides with luminescence properties. Applied Clay Science, 2017, 143, 175-183.	2.6	64
114	Anion exchange in Zn ²⁺ /Al layered double hydroxides: In situ X-ray diffraction study. Chemical Physics Letters, 2010, 495, 73-76.	1.2	63
115	Corrosion behaviour of WC hardmetals with nickel-based binders. Corrosion Science, 2019, 147, 384-393.	3.0	63
116	Active self-healing coating for galvanically coupled multi-material assemblies. Electrochemistry Communications, 2014, 41, 51-54.	2.3	62
117	Capacitance and photoelectrochemical studies for the assessment of anodic oxide films on aluminium. Electrochimica Acta, 2004, 49, 4701-4707.	2.6	60
118	Corrosion inhibition of copper in aqueous chloride solution by 1H-1,2,3-triazole and 1,2,4-triazole and their combinations: electrochemical, Raman and theoretical studies. Physical Chemistry Chemical Physics, 2017, 19, 6113-6129.	1.3	60
119	Functionalized chitosan-based coatings for active corrosion protection. Surface and Coatings Technology, 2013, 226, 51-59.	2.2	59
120	Chitosan as a Smart Coating for Controlled Release of Corrosion Inhibitor 2-Mercaptobenzothiazole. ECS Electrochemistry Letters, 2013, 2, C19-C22.	1.9	59
121	Ranking high-quality paint systems using EIS. Part II: defective coatings. Corrosion Science, 2003, 45, 139-147.	3.0	57
122	Cut-edge corrosion study on painted aluminum rich metallic coated steel by scanning vibrating electrode and micro-potentiometric techniques. Electrochimica Acta, 2012, 61, 107-117.	2.6	57
123	Semiconducting properties of oxide and passive films formed on AISI 304 stainless steel and Alloy 600. Journal of the Brazilian Chemical Society, 2002, 13, 433.	0.6	56
124	Active sensing coating for early detection of corrosion processes. RSC Advances, 2014, 4, 17780.	1.7	56
125	Quasi-simultaneous measurements of ionic currents by vibrating probe and pH distribution by ion-selective microelectrode. Electrochemistry Communications, 2011, 13, 20-23.	2.3	54
126	The application of electrochemical measurements to the study and behaviour of zinc-rich coatings. Corrosion Science, 1990, 30, 1135-1147.	3.0	52

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127	Cerium cinnamate as an environmentally benign inhibitor pigment for epoxy coatings on AA 2024-T3. <i>Progress in Organic Coatings</i> , 2014, 77, 765-773.	1.9	52
128	Layered double hydroxide based active corrosion protective sealing of plasma electrolytic oxidation/sol-gel composite coating on AA2024. <i>Applied Surface Science</i> , 2019, 494, 829-840.	3.1	52
129	Influence of the overlapped area on the corrosion behaviour of laser treated aluminium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1998, 252, 292-300.	2.6	51
130	A multi-electrode cell for high-throughput SVET screening of corrosion inhibitors. <i>Corrosion Science</i> , 2010, 52, 3146-3149.	3.0	51
131	Effect of functionalized carbon as Pt electrocatalyst support on the methanol oxidation reaction. <i>Applied Catalysis B: Environmental</i> , 2011, 102, 496-504.	10.8	51
132	Comparative X-ray diffraction and infrared spectroscopy study of Zn-Al layered double hydroxides: Vanadate vs nitrate. <i>Chemical Physics</i> , 2012, 397, 102-108.	0.9	51
133	The role of Ce(III)-enriched zeolites on the corrosion protection of AA2024-T3. <i>Electrochimica Acta</i> , 2013, 112, 549-556.	2.6	51
134	Corrosion behaviour of WC-10% AISI 304 cemented carbides. <i>Corrosion Science</i> , 2015, 100, 322-331.	3.0	51
135	Improving the functionality and performance of AA2024 corrosion sensing coatings with nanocontainers. <i>Chemical Engineering Journal</i> , 2018, 341, 526-538.	6.6	51
136	Electrochemical studies of the pitting of austenitic stainless steel. <i>Corrosion Science</i> , 1986, 26, 1009-1026.	3.0	50
137	Analytical and microscopic characterisation of modified bis-[triethoxysilylpropyl] tetrasulphide silane films on magnesium AZ31 substrates. <i>Progress in Organic Coatings</i> , 2007, 60, 228-237.	1.9	50
138	Characterization and corrosion behavior of binary Mg-Ga alloys. <i>Materials Characterization</i> , 2017, 128, 85-99.	1.9	50
139	Passivity breakdown of Al 2024-T3 alloy in chloride solutions: a test of the point defect model. <i>Electrochemistry Communications</i> , 2002, 4, 353-357.	2.3	49
140	Polar and antipolar polymorphs of metastable perovskite BiFeO_3 . <i>Physical Review B</i> , 2014, 89, .	0.59	49
141	Lanthanide Salts as Corrosion Inhibitors for AA5083. Mechanism and Efficiency of Corrosion Inhibition. <i>Journal of the Electrochemical Society</i> , 2008, 155, C169.	1.3	48
142	Influence of sol-gel process parameters on the protection properties of sol-gel coatings applied on AA2024. <i>Surface and Coatings Technology</i> , 2014, 246, 6-16.	2.2	48
143	EQCM studies of the electrodeposition and corrosion of tin-zinc coatings. <i>Electrochimica Acta</i> , 2001, 46, 3835-3840.	2.6	47
144	Characterization and performance evaluation of Pt-Ru electrocatalysts supported on different carbon materials for direct methanol fuel cells. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 910-920.	3.8	47

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145	Surface evaluation and electrochemical behaviour of doped silane pre-treatments on galvanised steel substrates. <i>Progress in Organic Coatings</i> , 2007, 59, 214-223.	1.9	45
146	Polyaniline coatings on aluminium alloy 6061-T6: Electrosynthesis and characterization. <i>Electrochimica Acta</i> , 2010, 55, 3580-3588.	2.6	45
147	Cerium molybdate nanowires for active corrosion protection of aluminium alloys. <i>Corrosion Science</i> , 2012, 58, 41-51.	3.0	44
148	Localised Measurements of pH and Dissolved Oxygen as Complements to SVET in the Investigation of Corrosion at Defects in Coated Aluminum Alloy. <i>Electroanalysis</i> , 2010, 22, 2009-2016.	1.5	43
149	Influence of temperature on the properties of passive films formed on AISI 304 stainless steel. <i>Electrochimica Acta</i> , 1991, 36, 315-320.	2.6	42
150	Influence of pH on Properties of Oxide Films Formed on Type 316L Stainless Steel, Alloy 600, and Alloy 690 in High-Temperature Aqueous Environments. <i>Corrosion</i> , 2003, 59, 11-21.	0.5	42
151	Role of intermetallics in corrosion of aluminum alloys. <i>Smart corrosion protection.</i> , 2018, , 425-462.		41
152	Zn-Al LDH growth on AA2024 and zinc and their intercalation with chloride: Comparison of crystal structure and kinetics. <i>Applied Surface Science</i> , 2020, 501, 144027.	3.1	41
153	EIS Study of Amine Cured Epoxy-silica-zirconia Sol-gel Coatings for Corrosion Protection of the Aluminium Alloy EN AW 6063. <i>Portugaliae Electrochimica Acta</i> , 2013, 31, 307-319.	0.4	40
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