

M G Ferreira

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322
papers

18,786
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76
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339
ext. papers

20,522
ext. citations

5
avg, IF

6.75
L-index

#	Paper	IF	Citations
322	Layer-by-Layer Assembled Nanocontainers for Self-Healing Corrosion Protection. <i>Advanced Materials</i> , 2006 , 18, 1672-1678	24	581
321	Anticorrosion Coatings with Self-Healing Effect Based on Nanocontainers Impregnated with Corrosion Inhibitor. <i>Chemistry of Materials</i> , 2007 , 19, 402-411	9.6	489
320	Nanostructured sol-gel coatings doped with cerium nitrate as pre-treatments for AA2024-T3. <i>Electrochimica Acta</i> , 2005 , 51, 208-217	6.7	439
319	Sol-gel coatings for corrosion protection of metals. <i>Journal of Materials Chemistry</i> , 2005 , 15, 5099		399
318	Active protection coatings with layered double hydroxide nanocontainers of corrosion inhibitor. <i>Corrosion Science</i> , 2010 , 52, 602-611	6.8	394
317	Chloride-induced corrosion on reinforcing steel: from the fundamentals to the monitoring techniques. <i>Cement and Concrete Composites</i> , 2003 , 25, 491-502	8.6	310
316	Active Anticorrosion Coatings with Halloysite Nanocontainers. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 958-964	3.8	302
315	Triazole and thiazole derivatives as corrosion inhibitors for AA2024 aluminium alloy. <i>Corrosion Science</i> , 2005 , 47, 3368-3383	6.8	288
314	Smart coatings for active corrosion protection based on multi-functional micro and nanocontainers. <i>Electrochimica Acta</i> , 2012 , 82, 314-323	6.7	281
313	Enhancement of active corrosion protection via combination of inhibitor-loaded nanocontainers. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1528-35	9.5	266
312	Mechanism of corrosion inhibition of AA2024 by rare-earth compounds. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 5515-28	3.4	263
311	High effective organic corrosion inhibitors for 2024 aluminium alloy. <i>Electrochimica Acta</i> , 2007 , 52, 7231-7247	6.7	247
310	Nanoporous titania interlayer as reservoir of corrosion inhibitors for coatings with self-healing ability. <i>Progress in Organic Coatings</i> , 2007 , 58, 127-135	4.8	247
309	Novel inorganic host layered double hydroxides intercalated with guest organic inhibitors for anticorrosion applications. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 2353-62	9.5	235
308	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	3.9	231
307	Corrosion protective properties of nanostructured sol-gel hybrid coatings to AA2024-T3. <i>Surface and Coatings Technology</i> , 2006 , 200, 3084-3094	4.4	230
306	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	3.9	226

305	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	6.7	222
304	Novel hybrid sol-gel coatings for corrosion protection of AZ31B magnesium alloy. <i>Electrochimica Acta</i> , 2008 , 53, 4773-4783	6.7	214
303	Role of intermetallic phases in localized corrosion of AA5083. <i>Electrochimica Acta</i> , 2007 , 52, 7651-7659	6.7	213
302	ZnAl layered double hydroxides as chloride nanotraps in active protective coatings. <i>Corrosion Science</i> , 2012 , 55, 1-4	6.8	201
301	Chemical composition and corrosion protection of silane films modified with CeO ₂ nanoparticles. <i>Electrochimica Acta</i> , 2009 , 54, 5179-5189	6.7	201
300	Silanes and rare earth salts as chromate replacers for pre-treatments on galvanised steel. <i>Electrochimica Acta</i> , 2004 , 49, 2927-2935	6.7	195
299	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	4.8	195
298	Electrochemical study of modified bis-[triethoxysilylpropyl] tetrasulfide silane films applied on the AZ31 Mg alloy. <i>Electrochimica Acta</i> , 2007 , 52, 7486-7495	6.7	181
297	Electrochemical study of inhibitor-containing organic-inorganic hybrid coatings on AA2024. <i>Corrosion Science</i> , 2009 , 51, 1012-1021	6.8	172
296	Silica nanocontainers for active corrosion protection. <i>Nanoscale</i> , 2012 , 4, 1287-98	7.7	170
295	Semiconducting properties of thermally grown oxide films on AISI 304 stainless steel. <i>Corrosion Science</i> , 2000 , 42, 687-702	6.8	168
294	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	6.7	167
293	Oxide nanoparticle reservoirs for storage and prolonged release of the corrosion inhibitors. <i>Electrochemistry Communications</i> , 2005 , 7, 836-840	5.1	163
292	Hydroxyapatite microparticles as feedback-active reservoirs of corrosion inhibitors. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 3011-22	9.5	162
291	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	6.8	162
290	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	4.8	153
289	Use of SVET and SECM to study the galvanic corrosion of an iron-zinc cell. <i>Corrosion Science</i> , 2007 , 49, 726-739	6.8	153
288	Sol-gel coatings modified with zeolite fillers for active corrosion protection of AA2024. <i>Corrosion Science</i> , 2012 , 62, 153-162	6.8	144

287	Nanostructured LDH-container layer with active protection functionality. <i>Journal of Materials Chemistry</i> , 2011 , 21, 15464		144
286	Inhibitor-doped sol-gel coatings for corrosion protection of magnesium alloy AZ31. <i>Surface and Coatings Technology</i> , 2010 , 204, 1479-1486	4.4	136
285	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	4.4	136
284	Hybrid epoxy-silane coatings for improved corrosion protection of Mg alloy. <i>Corrosion Science</i> , 2013 , 67, 82-90	6.8	134
283	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	6.7	134
282	Corrosion inhibition by chromate and phosphate extracts for iron substrates studied by EIS and SVET. <i>Corrosion Science</i> , 2006 , 48, 1500-1512	6.8	132
281	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	6.7	126
280	Complex anticorrosion coating for ZK30 magnesium alloy. <i>Electrochimica Acta</i> , 2009 , 55, 131-141	6.7	125
279	Chemical Composition of Passive Films on AISI 304 Stainless Steel. <i>Journal of the Electrochemical Society</i> , 1994 , 141, 3347-3356	3.9	124
278	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	6.8	123
277	Self-healing protective coatings with green-chitosan based pre-layer reservoir of corrosion inhibitor. <i>Journal of Materials Chemistry</i> , 2011 , 21, 4805		119
276	On the application of electrochemical impedance spectroscopy to study the self-healing properties of protective coatings. <i>Electrochemistry Communications</i> , 2007 , 9, 2622-2628	5.1	114
275	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	5.1	112
274	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	4.8	108
273	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	6.8	107
272	Influence of preparation conditions of Layered Double Hydroxide conversion films on corrosion protection. <i>Electrochimica Acta</i> , 2014 , 117, 164-171	6.7	106
271	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	4.8	105
270	Localized electrochemical study of corrosion inhibition in microdefects on coated AZ31 magnesium alloy. <i>Electrochimica Acta</i> , 2010 , 55, 5401-5406	6.7	105

269	Composition and behaviour of cerium films on galvanised steel. <i>Progress in Organic Coatings</i> , 2001 , 43, 274-281	4.8	104
268	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	6.8	104
267	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	4.8	103
266	Sol-Gel/Polyelectrolyte Active Corrosion Protection System. <i>Advanced Functional Materials</i> , 2008 , 18, 3137-3147	15.6	102
265	Monitoring local spatial distribution of Mg ²⁺ , pH and ionic currents. <i>Electrochemistry Communications</i> , 2008 , 10, 259-262	5.1	102
264	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	6.7	102
263	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	6.8	99
262	Anodising of Al 2024-T3 in a modified sulphuric acid/boric acid bath for aeronautical applications. <i>Corrosion Science</i> , 2003 , 45, 149-160	6.8	99
261	Electrochemical and analytical investigation of passive films formed on stainless steels in alkaline media. <i>Cement and Concrete Composites</i> , 2012 , 34, 1075-1081	8.6	97
260	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	4.8	96
259	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	6.7	94
258	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	4.4	93
257	A comparative study on the corrosion resistance of AA2024-T3 substrates pre-treated with different silane solutions: Composition of the films formed. <i>Progress in Organic Coatings</i> , 2005 , 54, 322-331	4.8	93
256	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	6.7	91
255	Corrosion protection of AA2024 by sol-gel coatings modified with MBT-loaded polyurea microcapsules. <i>Chemical Engineering Journal</i> , 2016 , 283, 1108-1117	14.7	87
254	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	6.7	86
253	Comparative electrochemical studies of zinc chromate and zinc phosphate as corrosion inhibitors for zinc. <i>Progress in Organic Coatings</i> , 2005 , 52, 339-350	4.8	85
252	Highlights during the development of electrochemical engineering. <i>Chemical Engineering Research and Design</i> , 2013 , 91, 1998-2020	5.5	83

251	The electronic properties of sputtered chromium and iron oxide films. <i>Corrosion Science</i> , 2004 , 46, 1479-1499	6.8	82
250	Analytical characterisation and corrosion behaviour of bis-[triethoxysilylpropyl]tetrasulphide pre-treated AA2024-T3. <i>Corrosion Science</i> , 2005 , 47, 869-881	6.8	81
249	E.I.S. evaluation of attached and free polymer films. <i>Progress in Organic Coatings</i> , 2000 , 38, 1-7	4.8	80
248	Corrosion behaviour of rebars in fly ash mortar exposed to carbon dioxide and chlorides. <i>Cement and Concrete Composites</i> , 2002 , 24, 45-53	8.6	78
247	High-density antimicrobial peptide coating with broad activity and low cytotoxicity against human cells. <i>Acta Biomaterialia</i> , 2016 , 33, 64-77	10.8	76
246	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	4.4	76
245	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	6.7	75
244	Ranking high-quality paint systems using EIS. Part I: intact coatings. <i>Corrosion Science</i> , 2003 , 45, 123-138	6.8	75
243	Active protective PEO coatings on AA2024: Role of voltage on in-situ LDH growth. <i>Materials and Design</i> , 2017 , 120, 36-46	8.1	71
242	Multiprobe chloride sensor for in situ monitoring of reinforced concrete structures. <i>Cement and Concrete Composites</i> , 2006 , 28, 233-236	8.6	71
241	Laser alloying of aluminium alloys with chromium. <i>Surface and Coatings Technology</i> , 1995 , 70, 221-229	4.4	71
240	Interlayer intercalation and arrangement of 2-mercaptobenzothiazolate and 1,2,3-benzotriazolite anions in layered double hydroxides: In situ X-ray diffraction study. <i>Journal of Solid State Chemistry</i> , 2016 , 233, 158-165	3.3	70
239	Electrodeposition and characterization of polypyrrole films on aluminium alloy 6061-T6. <i>Electrochimica Acta</i> , 2008 , 53, 4754-4763	6.7	70
238	Electrochemical behaviour of amino alcohol-based inhibitors used to control corrosion of reinforcing steel. <i>Electrochimica Acta</i> , 2004 , 49, 2753-2760	6.7	70
237	Chemical composition and semiconducting behaviour of stainless steel passive films in contact with artificial seawater. <i>Corrosion Science</i> , 1998 , 40, 481-494	6.8	69
236	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	4.8	68
235	Plasma anodized ZE41 magnesium alloy sealed with hybrid epoxy-silane coating. <i>Corrosion Science</i> , 2013 , 73, 300-308	6.8	67
234	Corrosion protection of AA2024-T3 by LDH conversion films. Analysis of SVET results. <i>Electrochimica Acta</i> , 2016 , 210, 215-224	6.7	67

233	Localized corrosion of laser surface melted 2024-T351 aluminium alloy. <i>Surface and Coatings Technology</i> , 1996 , 81, 290-296	4.4	65
232	Polyelectrolyte-modified layered double hydroxide nanocontainers as vehicles for combined inhibitors. <i>RSC Advances</i> , 2015 , 5, 39916-39929	3.7	64
231	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	3.7	64
230	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	4.4	64
229	Active corrosion protection of AA2024 by sol-gel coatings with cerium molybdate nanowires. <i>Electrochimica Acta</i> , 2013 , 112, 236-246	6.7	63
228	Electrochemical Studies of the Passive Film on 316 Stainless Steel in Chloride Media. <i>Journal of the Electrochemical Society</i> , 1985 , 132, 760-765	3.9	63
227	Analytical Characterization of the Passive Film Formed on Steel in Solutions Simulating the Concrete Interstitial Electrolyte. <i>Corrosion</i> , 1998 , 54, 347-353	1.8	62
226	Sealing of tartaric sulfuric (TSA) anodized AA2024 with nanostructured LDH layers. <i>RSC Advances</i> , 2016 , 6, 13942-13952	3.7	61
225	Synergistic corrosion inhibition on galvanically coupled metallic materials. <i>Electrochemistry Communications</i> , 2012 , 20, 101-104	5.1	61
224	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	6.8	61
223	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	3.9	60
222	Chemical composition and electronic structure of passive films formed on Alloy 600 in acidic solution. <i>Corrosion Science</i> , 2008 , 50, 676-686	6.8	60
221	Chitosan as a smart coating for corrosion protection of aluminum alloy 2024: A review. <i>Progress in Organic Coatings</i> , 2015 , 89, 348-356	4.8	59
220	The corrosion performance of organosilane based pre-treatments for coatings on galvanised steel. <i>Progress in Organic Coatings</i> , 2000 , 38, 17-26	4.8	59
219	Fault-tolerant hybrid epoxy-silane coating for corrosion protection of magnesium alloy AZ31. <i>Progress in Organic Coatings</i> , 2015 , 80, 98-105	4.8	57
218	Active self-healing coating for galvanically coupled multi-material assemblies. <i>Electrochemistry Communications</i> , 2014 , 41, 51-54	5.1	57
217	Corrosion behaviour of reinforcing steel exposed to an amino alcohol based corrosion inhibitor. <i>Cement and Concrete Composites</i> , 2005 , 27, 671-678	8.6	55
216	Nanocontainer-based corrosion sensing coating. <i>Nanotechnology</i> , 2013 , 24, 415502	3.4	54

215	The corrosion behaviour of rare-earth containing magnesium alloys in borate buffer solution. <i>Electrochimica Acta</i> , 2011 , 56, 1535-1545	6.7	54
214	Cut-edge corrosion study on painted aluminum rich metallic coated steel by scanning vibrating electrode and micro-potentiometric techniques. <i>Electrochimica Acta</i> , 2012 , 61, 107-117	6.7	52
213	Capacitance and photoelectrochemical studies for the assessment of anodic oxide films on aluminium. <i>Electrochimica Acta</i> , 2004 , 49, 4701-4707	6.7	52
212	Control of crystallite and particle size in the synthesis of layered double hydroxides: Macromolecular insights and a complementary modeling tool. <i>Journal of Colloid and Interface Science</i> , 2016 , 468, 86-94	9.3	51
211	Incorporation of biocides in nanocapsules for protective coatings used in maritime applications. <i>Chemical Engineering Journal</i> , 2015 , 270, 150-157	14.7	51
210	Chitosan as a Smart Coating for Controlled Release of Corrosion Inhibitor 2-Mercaptobenzothiazole. <i>ECS Electrochemistry Letters</i> , 2013 , 2, C19-C22		51
209	Quasi-simultaneous measurements of ionic currents by vibrating probe and pH distribution by ion-selective microelectrode. <i>Electrochemistry Communications</i> , 2011 , 13, 20-23	5.1	51
208	Anion exchange in ZnAl layered double hydroxides: In situ X-ray diffraction study. <i>Chemical Physics Letters</i> , 2010 , 495, 73-76	2.5	51
207	PEO Coatings with Active Protection Based on In-Situ Formed LDH-Nanocontainers. <i>Journal of the Electrochemical Society</i> , 2017 , 164, C36-C45	3.9	50
206	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	6.8	49
205	The role of Ce(III)-enriched zeolites on the corrosion protection of AA2024-T3. <i>Electrochimica Acta</i> , 2013 , 112, 549-556	6.7	47
204	Semiconducting properties of oxide and passive films formed on AISI 304 stainless steel and Alloy 600. <i>Journal of the Brazilian Chemical Society</i> , 2002 , 13, 433	1.5	47
203	Active sensing coating for early detection of corrosion processes. <i>RSC Advances</i> , 2014 , 4, 17780	3.7	46
202	Functionalized chitosan-based coatings for active corrosion protection. <i>Surface and Coatings Technology</i> , 2013 , 226, 51-59	4.4	46
201	Comparative X-ray diffraction and infrared spectroscopy study of ZnAl layered double hydroxides: Vanadate vs nitrate. <i>Chemical Physics</i> , 2012 , 397, 102-108	2.3	45
200	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. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 6113-6129	3.6	44
199	A comparative study of co-precipitation and sol-gel synthetic approaches to fabricate cerium-substituted MgAl layered double hydroxides with luminescence properties. <i>Applied Clay Science</i> , 2017 , 143, 175-183	5.2	44
198	Effect of functionalized carbon as Pt electrocatalyst support on the methanol oxidation reaction. <i>Applied Catalysis B: Environmental</i> , 2011 , 102, 496-504	21.8	44

197	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	5.3	44
196	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	5.1	44
195	Ranking high-quality paint systems using EIS. Part II: defective coatings. <i>Corrosion Science</i> , 2003 , 45, 139-147	6.7	44
194	The application of electrochemical measurements to the study and behaviour of zinc-rich coatings. <i>Corrosion Science</i> , 1990 , 30, 1135-1147	6.8	44
193	Electrochemical studies of the pitting of austenitic stainless steel. <i>Corrosion Science</i> , 1986 , 26, 1009-1026	6.8	44
192	A multi-electrode cell for high-throughput SVET screening of corrosion inhibitors. <i>Corrosion Science</i> , 2010 , 52, 3146-3149	6.8	43
191	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	4.8	42
190	Polar and antipolar polymorphs of metastable perovskite BiFe _{0.5} Sc _{0.5} O ₃ . <i>Physical Review B</i> , 2014 , 89,	3.3	42
189	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	4.8	42
188	Characterization and performance evaluation of PtRu electrocatalysts supported on different carbon materials for direct methanol fuel cells. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 910-920	6.7	40
187	Lanthanide Salts as Corrosion Inhibitors for AA5083. Mechanism and Efficiency of Corrosion Inhibition. <i>Journal of the Electrochemical Society</i> , 2008 , 155, C169	3.9	40
186	Cerium molybdate nanowires for active corrosion protection of aluminium alloys. <i>Corrosion Science</i> , 2012 , 58, 41-51	6.8	39
185	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	4.4	38
184	Polyaniline coatings on aluminium alloy 6061-T6: Electrosynthesis and characterization. <i>Electrochimica Acta</i> , 2010 , 55, 3580-3588	6.7	38
183	EQCM studies of the electrodeposition and corrosion of tin-zinc coatings. <i>Electrochimica Acta</i> , 2001 , 46, 3835-3840	6.7	38
182	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	3	37
181	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	1.8	37
180	Influence of temperature on the properties of passive films formed on AISI 304 stainless steel. <i>Electrochimica Acta</i> , 1991 , 36, 315-320	6.7	37

179	Surface evaluation and electrochemical behaviour of doped silane pre-treatments on galvanised steel substrates. <i>Progress in Organic Coatings</i> , 2007 , 59, 214-223	4.8	36
178	Corrosion behaviour of WC-10% AISI 304 cemented carbides. <i>Corrosion Science</i> , 2015 , 100, 322-331	6.8	34
177	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	2.4	33
176	Characterization and corrosion behavior of binary Mg-Ga alloys. <i>Materials Characterization</i> , 2017 , 128, 85-99	3.9	32
175	Corrosion behavior of nanocrystalline (Ni70Mo30)90B10 alloys in 0.8 M KOH solution. <i>Corrosion Science</i> , 2003 , 45, 1833-1845	6.8	32
174	Corrosion behaviour of WC hardmetals with nickel-based binders. <i>Corrosion Science</i> , 2019 , 147, 384-393	6.8	32
173	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	6.7	31
172	Passive behavior of magnesium alloys (MgZr) containing rare-earth elements in alkaline media. <i>Electrochimica Acta</i> , 2010 , 55, 2482-2489	6.7	31
171	Micropotentiometric mapping of local distributions of Zn ²⁺ relevant to corrosion studies. <i>Electrochemistry Communications</i> , 2010 , 12, 394-397	5.1	31
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