

Ricardo M Souto

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Contributions of Microelectrochemical Scanning Techniques for the Efficient Detection of Localized Corrosion Processes at the Cut Edges of Polymer-Coated Galvanized Steel. <i>Molecules</i> , 2022, 27, 2167.	3.8	3
2	Development of an Al ³⁺ ion-selective microelectrode for the potentiometric microelectrochemical monitoring of corrosion sites on 2098-T351 aluminum alloy surfaces. <i>Electrochimica Acta</i> , 2022, 415, 140260.	5.2	6
3	Uses of Scanning Electrochemical Microscopy (SECM) for the Characterization with Spatial and Chemical Resolution of Thin Surface Layers and Coating Systems Applied on Metals: A Review. <i>Coatings</i> , 2022, 12, 637.	2.6	13
4	Electrochemical characterization of alloy segregation in the near-surface deformed layer of welded zones of an Al-Cu-Li alloy using scanning electrochemical microscopy. <i>Electrochimica Acta</i> , 2022, 427, 140873.	5.2	3
5	Surface finishing effects on the corrosion behavior and electrochemical activity of 2098-T351 aluminum alloy investigated using scanning microelectrochemical techniques. <i>Materials Characterization</i> , 2022, 191, 112130.	4.4	4
6	Do titanium biomaterials get immediately and entirely repassivated? A perspective. <i>Npj Materials Degradation</i> , 2022, 6, .	5.8	9
7	Use of alumina sludge arising from an electrocoagulation process as functional mesoporous microcapsules for active corrosion protection of aluminum. <i>Progress in Organic Coatings</i> , 2021, 151, 106044.	3.9	3
8	Evaluation of in vitro corrosion resistance and in vivo osseointegration properties of a FeMnSiCa alloy as potential degradable implant biomaterial. <i>Materials Science and Engineering C</i> , 2021, 118, 111436.	7.3	19
9	Use of Amperometric and Potentiometric Probes in Scanning Electrochemical Microscopy for the Spatially-Resolved Monitoring of Severe Localized Corrosion Sites on Aluminum Alloy 2098-T351. <i>Sensors</i> , 2021, 21, 1132.	3.8	8
10	On the local corrosion behavior of coupled welded zones of the 2098-T351 Al-Cu-Li alloy produced by Friction Stir Welding (FSW): An amperometric and potentiometric microelectrochemical investigation. <i>Electrochimica Acta</i> , 2021, 373, 137910.	5.2	11
11	Investigation of anomalous hydrogen evolution from anodized magnesium using a polarization routine for scanning electrochemical microscopy. <i>Journal of Electroanalytical Chemistry</i> , 2021, 895, 115538.	3.8	4
12	In Situ Investigation of the Cytotoxic and Interfacial Characteristics of Titanium When Galvanically Coupled with Magnesium Using Scanning Electrochemical Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 43587-43596.	8.0	9
13	Experimental characterization, machine learning analysis and computational modelling of the high effective inhibition of copper corrosion by 5-(4-pyridyl)-1,3,4-oxadiazole-2-thiol in saline environment. <i>Electrochimica Acta</i> , 2021, 398, 139282.	5.2	25
14	New insights on the influence of aluminum on the anomalous hydrogen evolution of anodized magnesium using scanning electrochemical microscopy. <i>Electrochimica Acta</i> , 2021, 391, 138915.	5.2	7
15	Spectroelectrochemical Behavior of Polycrystalline Gold Electrode Modified by Reverse Micelles. <i>Molecules</i> , 2021, 26, 471.	3.8	1
16	New Ti-6Al-2Nb-2Ta-1Mo alloy as implant biomaterial: In vitro corrosion and in vivo osseointegration evaluations. <i>Materials Chemistry and Physics</i> , 2020, 240, 122229.	4.0	16
17	A novel scanning electrochemical microscopy strategy for the investigation of anomalous hydrogen evolution from AZ63 magnesium alloy. <i>Sensors and Actuators B: Chemical</i> , 2020, 308, 127691.	7.8	19
18	Multiscale electrochemical analysis of the corrosion control of bronze in simulated acid rain by horse-chestnut (<i>Aesculus hippocastanum</i> L.) extract as green inhibitor. <i>Corrosion Science</i> , 2020, 165, 108381.	6.6	41

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19	REMOVED: In vitro corrosion resistance and in vivo osseointegration testing of new multifunctional beta-type quaternary TiMoZrTa alloys. <i>Materials Science and Engineering C</i> , 2020, 108, 110485.	7.3	6
20	Galvanic coupling effects on the corrosion behavior of the 6061 aluminum alloy used in research nuclear reactors. <i>Journal of Nuclear Materials</i> , 2020, 541, 152440.	2.7	12
21	A scanning electrochemical microscopy characterization of the localized corrosion reactions occurring on nitinol in saline solution after anodic polarization. <i>Sensors and Actuators B: Chemical</i> , 2020, 321, 128610.	7.8	21
22	Surface chemistry, film morphology, local electrochemical behavior and cytotoxic response of anodized AZ31B magnesium alloy. <i>Journal of Materials Research and Technology</i> , 2020, 9, 14754-14770.	5.8	17
23	A study of the electrochemical reactivity of titanium under cathodic polarization by means of combined feedback and redox competition modes of scanning electrochemical microscopy. <i>Sensors and Actuators B: Chemical</i> , 2020, 320, 128339.	7.8	15
24	The Influence of Test-Panel Orientation and Exposure Angle on the Corrosion Rate of Carbon Steel. <i>Mathematical Modelling. Metals</i> , 2020, 10, 196.	2.3	5
25	Improvement of the Corrosion Resistance of Biomedical Zr-Ti Alloys Using a Thermal Oxidation Treatment. <i>Metals</i> , 2020, 10, 166.	2.3	4
26	Shortcomings of International Standard ISO 9223 for the Classification, Determination, and Estimation of Atmosphere Corrosivities in Subtropical Archipelagic Conditions—The Case of the Canary Islands (Spain). <i>Metals</i> , 2019, 9, 1105.	2.3	7
27	Pitting corrosion inhibition of 304 stainless steel in NaCl solution by three newly synthesized carboxylic Schiff bases. <i>Corrosion Science</i> , 2019, 160, 108130.	6.6	59
28	Fluoride removal from natural volcanic underground water by an electrocoagulation process: Parametric and cost evaluations. <i>Journal of Environmental Management</i> , 2019, 246, 472-483.	7.8	48
29	Design and optimization of an electrocoagulation reactor for fluoride remediation in underground water sources for human consumption. <i>Journal of Water Process Engineering</i> , 2019, 31, 100865.	5.6	28
30	Multi-barrel electrodes containing an internal micro-reference for the improved visualization of galvanic corrosion processes in magnesium-based materials using potentiometric scanning electrochemical microscopy. <i>Sensors and Actuators B: Chemical</i> , 2019, 296, 126625.	7.8	17
31	Groundwater Quality Assessment in a Volcanic Mountain Range (South of Gran Canaria Island, Spain). <i>Water (Switzerland)</i> , 2019, 11, 754.	2.7	11
32	Osseointegration evaluation of ZrTi alloys with hydroxyapatite-zirconia-silver layer in pig's tibiae. <i>Applied Surface Science</i> , 2019, 487, 127-137.	6.1	14
33	Fitting procedure based on Differential Evolution to evaluate impedance parameters of metal coating systems. <i>Engineering Computations</i> , 2019, 36, 2960-2982.	1.4	7
34	Potentiometric Tip Electrodes for Improved Visualization of Galvanic Corrosion Processes Using SECM. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
35	Synthesis and Evaluation of Anionic Schiff Bases As Pitting Corrosion Inhibitor for Stainless Steel 304 in NaCl Solution. <i>ECS Meeting Abstracts</i> , 2019, MA2019-01, 998-998.	0.0	1
36	Chemical Imaging of Reactive Surfaces Using Microsensors As Tips in Scanning Electrochemical Microscopy: Applications in Corrosion Research and Protection. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0

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37	Inhibitive effect of sodium (E)-4-(4-nitrobenzylideneamino)benzoate on the corrosion of some metals in sodium chloride solution. <i>Applied Surface Science</i> , 2018, 447, 852-865.	6.1	37
38	Double Barrel Microelectrode Assembly to Prevent Electrical Field Effects in Potentiometric SECM Imaging of Galvanic Corrosion Processes. <i>Journal of the Electrochemical Society</i> , 2018, 165, C270-C277.	2.9	16
39	Investigating metal-inhibitor interaction with EQCM and SVET: 3-amino-1,2,4-triazole on Au, Cu and Au-Cu galvanic coupling. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2018, 69, 115-124.	1.5	2
40	Evaluation of the Corrosion of AZ31 Magnesium Alloy Used as Sacrificial Anode for Cathodic Protection of Hot-Water Tank Storage Containing Chloride. <i>International Journal of Electrochemical Science</i> , 2018, 13, 29-44.	1.3	13
41	SECM study of the pH distribution over Cu samples treated with 2-mercaptobenzothiazole in NaCl solution. <i>Electrochemistry Communications</i> , 2017, 78, 60-63.	4.7	15
42	The effect of electric field on potentiometric Scanning Electrochemical Microscopic imaging. <i>Electrochemistry Communications</i> , 2017, 77, 138-141.	4.7	18
43	Improved potentiometric SECM imaging of galvanic corrosion reactions. <i>Corrosion Science</i> , 2017, 129, 136-145.	6.6	26
44	Corrosion behavior of new quaternary ZrNbTiAl alloys in simulated physiological solution using electrochemical techniques and surface analysis methods. <i>Electrochimica Acta</i> , 2017, 248, 368-375.	5.2	30
45	Propolis as a green corrosion inhibitor for bronze in weakly acidic solution. <i>Applied Surface Science</i> , 2017, 426, 1100-1112.	6.1	65
46	In situ investigation of copper corrosion in acidic chloride solution using atomic force-scanning electrochemical microscopy. <i>Electrochimica Acta</i> , 2017, 247, 588-599.	5.2	26
47	Novel dual microelectrode probe for the simultaneous visualization of local Zn ²⁺ and pH distributions in galvanic corrosion processes. <i>Corrosion Science</i> , 2017, 114, 37-44.	6.6	22
48	Electrochemical Studies on the Stability and Corrosion Resistance of Two Austenitic Stainless Steels for Soft Drinks Containers. <i>International Journal of Electrochemical Science</i> , 2017, 12, 5438-5449.	1.3	3
49	SVET study of the interaction of 2-mercaptobenzothiazole corrosion inhibitor with Au, Cu and Au-Cu galvanic pair. <i>International Journal of Corrosion and Scale Inhibition</i> , 2017, 6, .	0.6	0
50	Electrochemical Investigation of the Corrosion Resistance of Ti ₂₀ Mo Alloys in Simulated Physiological Solution with Added Proteins for Biomaterial Application. <i>International Journal of Electrochemical Science</i> , 2016, , 6922-6932.	1.3	4
51	Kinetic Passivation Effect of Localized Differential Aeration on Brass. <i>ChemPlusChem</i> , 2016, 81, 49-57.	2.8	4
52	Kinetic Passivation Effect of Localized Differential Aeration on Brass. <i>ChemPlusChem</i> , 2016, 81, 2-2.	2.8	0
53	Corrosion resistance of ZrTi alloys with hydroxyapatite-zirconia-silver layer in simulated physiological solution containing proteins for biomaterial applications. <i>Applied Surface Science</i> , 2016, 389, 1069-1075.	6.1	15
54	Imaging of Concentration Distributions and Hydrogen Evolution on Corroding Magnesium Exposed to Aqueous Environments Using Scanning Electrochemical Microscopy. <i>Electroanalysis</i> , 2016, 28, 2354-2366.	2.9	24

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55	Combined amperometric/potentiometric probes for improved chemical imaging of corroding surfaces using Scanning Electrochemical Microscopy. <i>Electrochimica Acta</i> , 2016, 221, 48-55.	5.2	16
56	Scanning electrochemical microscopy characterization of sol-gel coatings applied on AA2024-T3 substrate for corrosion protection. <i>Corrosion Science</i> , 2016, 111, 625-636.	6.6	35
57	Electrochemical characterization of pulsed layer deposited hydroxyapatite-zirconia layers on Ti-21Nb-15Ta-6Zr alloy for biomedical application. <i>Applied Surface Science</i> , 2016, 385, 368-378.	6.1	28
58	SIMULTANEOUS ATOMIC FORCE AND SCANNING ELECTROCHEMICAL MICROSCOPY (AFM-SECM) IMAGING OF COPPER DISSOLUTION. <i>Electrochimica Acta</i> , 2016, 201, 320-332.	5.2	24
59	Electrochemical characteristics of bioresorbable binary MgCa alloys in Ringer's solution: Revealing the impact of local pH distributions during in-vitro dissolution. <i>Materials Science and Engineering C</i> , 2016, 60, 402-410.	7.3	48
60	Multiscale electrochemical analysis of the corrosion of titanium and nitinol for implant applications. <i>Electrochimica Acta</i> , 2016, 203, 366-378.	5.2	31
61	Mapping of Local Corrosion Behavior of Zinc in Substitute Ocean Water at Its Initial Stages by SVET. <i>International Journal of Electrochemical Science</i> , 2016, 11, 5256-5266.	1.3	9
62	In-situ Monitoring of Pit Nucleation and Growth at an Iron Passive Oxide Layer by using Combined Atomic Force and Scanning Electrochemical Microscopy. <i>ChemElectroChem</i> , 2015, 2, 1847-1856.	3.4	14
63	Characterization of the Corrosive Action of Mineral Waters from Thermal Sources: A Case Study at Azores Archipelago, Portugal. <i>Water (Switzerland)</i> , 2015, 7, 3515-3530.	2.7	11
64	Investigation of processing effects on the corrosion resistance of Ti20Mo alloy in saline solutions. <i>Corrosion Science</i> , 2015, 98, 170-179.	6.6	15
65	Multiscale Electrochemical Investigation of the Corrosion Resistance of Various Alloys Used in Dental Prostheses. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015, 46, 1011-1021.	2.1	5
66	Possibilities and Limitations of Scanning Electrochemical Microscopy of Mg and Mg Alloys. <i>Corrosion</i> , 2015, 71, 171-183.	1.1	37
67	Evaluation of the corrosion resistance of plasma nitrided austenitic stainless steel. <i>International Journal of Materials Research</i> , 2015, 106, 267-274.	0.3	4
68	Evaluation of the corrosion protection of steel by anodic processing in metasilicate solution using the scanning vibrating electrode technique. <i>Electrochimica Acta</i> , 2015, 178, 1-10.	5.2	15
69	SECM imaging of the cut edge corrosion of galvanized steel as a function of pH. <i>Electrochimica Acta</i> , 2015, 153, 238-245.	5.2	30
70	Simultaneous pit generation and visualization of pit topography using combined atomic force and scanning electrochemical microscopy. <i>Electrochemistry Communications</i> , 2015, 51, 15-18.	4.7	16
71	Inhibition of the pitting corrosion of 304 stainless steel in 0.5 M hydrochloric acid solution by heptamolybdate ions. <i>Corrosion Science</i> , 2015, 90, 522-528.	6.6	96
72	Scanning electrochemical microscopy studies for the characterization of localized corrosion reactions at cut edges of coil-coated steel. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 2983-2992.	2.5	28

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73	Characterisation of localised corrosion processes using scanning electrochemical impedance microscopy. <i>Electrochemistry Communications</i> , 2014, 44, 38-41.	4.7	28
74	Metastable beta Ti-Nb-Mo alloys with improved corrosion resistance in saline solution. <i>Electrochimica Acta</i> , 2014, 137, 280-289.	5.2	92
75	Scanning microelectrochemical characterization of the effect of polarization on the localized corrosion of 304 stainless steel in chloride solution. <i>Journal of Electroanalytical Chemistry</i> , 2014, 728, 148-157.	3.8	35
76	Effect of acidic fluoride solution on the corrosion resistance of ZrTi alloys for dental implant application. <i>Corrosion Science</i> , 2014, 87, 334-343.	6.6	37
77	In situ monitoring of the electrochemical reactivity of aluminium alloy AA6060 using the scanning vibrating electrode technique. <i>Journal of Electroanalytical Chemistry</i> , 2014, 732, 74-79.	3.8	4
78	Imaging Local Surface Reactivity on Stainless Steels 304 and 316 in Acid Chloride Solution using Scanning Electrochemical Microscopy and the Scanning Vibrating Electrode Technique. <i>Electrochimica Acta</i> , 2014, 134, 167-175.	5.2	28
79	Electrochemical behaviour of ZrTi alloys in artificial physiological solution simulating in vitro inflammatory conditions. <i>Applied Surface Science</i> , 2014, 313, 259-266.	6.1	28
80	Investigation of the electrochemical behaviour of TiMo alloys in simulated physiological solutions. <i>Electrochimica Acta</i> , 2013, 113, 470-480.	5.2	65
81	Development of Mg ²⁺ -Selective Microelectrodes for Potentiometric Scanning Electrochemical Microscopy Monitoring of Galvanic Corrosion Processes. <i>Journal of the Electrochemical Society</i> , 2013, 160, C451-C459.	2.9	49
82	Potentiometric scanning electrochemical microscopy for the local characterization of the electrochemical behaviour of magnesium-based materials. <i>Electrochimica Acta</i> , 2013, 87, 283-293.	5.2	51
83	Electrochemical characterization of ZrTi alloys for biomedical applications. <i>Electrochimica Acta</i> , 2013, 88, 447-456.	5.2	77
84	Resolution of the apparent experimental discrepancies observed between SVET and SECM for the characterization of galvanic corrosion reactions. <i>Electrochemistry Communications</i> , 2013, 27, 50-53.	4.7	36
85	Spatially-resolved imaging of concentration distributions on corroding magnesium-based materials exposed to aqueous environments by SECM. <i>Electrochemistry Communications</i> , 2013, 26, 25-28.	4.7	47
86	Electrochemical characterization of ZrTi alloys for biomedical applications. Part 2: The effect of thermal oxidation. <i>Electrochimica Acta</i> , 2013, 106, 432-439.	5.2	29
87	Investigation of Mg/Al alloy sacrificial anode corrosion with Scanning Electrochemical Microscopy. <i>Periodica Polytechnica: Chemical Engineering</i> , 2013, 57, 11.	1.1	3
88	(Invited) Investigation of Early Degradation Processes at Coated Metals by AC-Scanning Electrochemical Microscopy. <i>ECS Transactions</i> , 2012, 41, 29-38.	0.5	1
89	Local Electrochemical Impedance Spectroscopy Investigation of Corrosion Inhibitor Films on Copper. <i>ECS Transactions</i> , 2012, 41, 227-235.	0.5	5
90	On the use of mercury-coated tips in scanning electrochemical microscopy to investigate galvanic corrosion processes involving zinc and iron. <i>Corrosion Science</i> , 2012, 55, 401-406.	6.6	25

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91	Investigation of Copper Corrosion Inhibition with Frequency-Dependent Alternating-Current Scanning Electrochemical Microscopy. <i>ChemPlusChem</i> , 2012, 77, 707-712.	2.8	17
92	Scanning electrochemical microscopy for the investigation of corrosion processes: Measurement of Zn ²⁺ spatial distribution with ion selective microelectrodes. <i>Electrochimica Acta</i> , 2012, 59, 398-403.	5.2	36
93	Direct evidence of early blister formation in polymer-coated metals from exposure to chloride-containing electrolytes by alternating-current scanning electrochemical microscopy. <i>Electrochimica Acta</i> , 2012, 77, 60-64.	5.2	17
94	Sensing polymer inhomogeneity in coated metals during the early stages of coating degradation. <i>Progress in Organic Coatings</i> , 2012, 74, 365-370.	3.9	10
95	New opportunities for the study of organic films applied on metals for corrosion protection by means of alternating current scanning electrochemical microscopy. <i>Progress in Organic Coatings</i> , 2012, 74, 371-375.	3.9	6
96	Scanning microelectrochemical characterization of the anti-corrosion performance of inhibitor films formed by 2-mercaptobenzimidazole on copper. <i>Progress in Organic Coatings</i> , 2012, 74, 526-533.	3.9	50
97	In Situ Scanning Electrochemical Microscopy (SECM) Detection of Metal Dissolution during Zinc Corrosion by Means of Mercury Sphere-Cap Microelectrode Tips. <i>Chemistry - A European Journal</i> , 2012, 18, 230-236.	3.3	38
98	FTIR Characterization of Surface Interactions of Cyanide and Copper Cyanide with a Platinum Electrode in Alkaline Solution. <i>Journal of Physical Chemistry C</i> , 2011, 115, 3671-3677.	3.1	12
99	Scanning electrochemical microscopy for the investigation of localized degradation processes in coated metals: Effect of oxygen. <i>Corrosion Science</i> , 2011, 53, 1910-1915.	6.6	39
100	Sensing electrochemical activity in polymer coated metals during the early stages of coating degradation—Effect of the polarization of the substrate. <i>Electrochimica Acta</i> , 2011, 56, 9596-9601.	5.2	18
101	Spatially resolved measurement of electrochemical activity and pH distributions in corrosion processes by scanning electrochemical microscopy using antimony microelectrode tips. <i>Electrochimica Acta</i> , 2011, 56, 8846-8850.	5.2	64
102	A novel microelectrochemical strategy for the study of corrosion inhibitors employing the scanning vibrating electrode technique and dual potentiometric/amperometric operation in scanning electrochemical microscopy: Application to the study of the cathodic inhibition by benzotriazole of the galvanic corrosion of copper coupled to iron. <i>Electrochimica Acta</i> , 2011, 58, 707-716.	5.2	44
103	Application of AC-SECM in Corrosion Science: Local Visualisation of Inhibitor Films on Active Metals for Corrosion Protection. <i>Chemistry - A European Journal</i> , 2011, 17, 905-911.	3.3	37
104	Development of Solid Contact Micropipette Zn-Ion Selective Electrode for Corrosion Studies. <i>Analytical Letters</i> , 2011, 44, 2876-2886.	1.8	17
105	Visualization of local degradation processes in coated metals by means of scanning electrochemical microscopy in the redox competition mode. <i>Electrochimica Acta</i> , 2010, 55, 4488-4494.	5.2	63
106	Self-healing processes in coil-coated cladding studied by the scanning vibrating electrode. <i>Electrochimica Acta</i> , 2010, 55, 4551-4557.	5.2	20
107	Uses of scanning electrochemical microscopy for the characterization of thin inhibitor films on reactive metals: The protection of copper surfaces by benzotriazole. <i>Electrochimica Acta</i> , 2010, 55, 8791-8800.	5.2	67
108	Resistance of metallic substrates protected by an organic coating containing glass flakes. <i>Progress in Organic Coatings</i> , 2010, 68, 240-243.	3.9	59

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109	Scanning electrochemical microscopy for the investigation of localized degradation processes in coated metals. <i>Progress in Organic Coatings</i> , 2010, 69, 110-117.	3.9	45
110	Examination of organic coatings on metallic substrates by scanning electrochemical microscopy in feedback mode: Revealing the early stages of coating breakdown in corrosive environments. <i>Corrosion Science</i> , 2010, 52, 748-753.	6.6	88
111	Sensing electrochemical activity in polymer-coated metals during the early stages of coating degradation by means of the scanning vibrating electrode technique. <i>Corrosion Science</i> , 2010, 52, 3924-3931.	6.6	16
112	Characterization of coating systems by scanning electrochemical microscopy: Surface topology and blistering. <i>Progress in Organic Coatings</i> , 2009, 65, 435-439.	3.9	46
113	SECM Imaging of Interfacial Processes in Defective Organic Coatings Applied on Metallic Substrates Using Oxygen as Redox Mediator. <i>Electroanalysis</i> , 2009, 21, 2640-2646.	2.9	47
114	Imaging the Origins of Coating Degradation and Blistering Caused by Electrolyte Immersion Assisted by SECM. <i>Electroanalysis</i> , 2009, 21, 2569-2574.	2.9	32
115	Evaluation of the corrosion performance of coil-coated steel sheet as studied by scanning electrochemical microscopy. <i>Corrosion Science</i> , 2008, 50, 1637-1643.	6.6	50
116	Use of SVET and SECM to study the galvanic corrosion of an iron-zinc cell. <i>Corrosion Science</i> , 2007, 49, 726-739.	6.6	167
117	Electrochemical and structural properties of a polyurethane coating on steel substrates for corrosion protection. <i>Corrosion Science</i> , 2007, 49, 3514-3526.	6.6	181
118	Investigating corrosion processes in the micrometric range: A SVET study of the galvanic corrosion of zinc coupled with iron. <i>Corrosion Science</i> , 2007, 49, 4568-4580.	6.6	96
119	Electroless, Electrolytic and Galvanic Copper Deposition with the Scanning Electrochemical Microscope (SECM). <i>Zeitschrift Fur Physikalische Chemie</i> , 2006, 220, 393-406.	2.8	15
120	Comparative EIS study of different Zn-based intermediate metallic layers in coil-coated steels. <i>Corrosion Science</i> , 2006, 48, 1182-1192.	6.6	38
121	Characterization of the catalytic films formed on stainless steel anodes employed for the electrochemical treatment of cuprocyanide wastewaters. <i>Journal of Hazardous Materials</i> , 2005, 119, 145-152.	12.4	11
122	Hydrodynamic effects on the performance of an electrochemical reactor for destruction of copper cyanide. Part 2 reactor kinetics and current efficiencies. <i>Chemical Engineering Science</i> , 2005, 60, 535-543.	3.8	17
123	Hydrodynamic effects on the performance of an electrochemical reactor for destruction of copper cyanide Part 1: in situ formation of the electrocatalytic film. <i>Chemical Engineering Science</i> , 2005, 60, 523-533.	3.8	22
124	The effect of temperature on the nucleation of corrosion pits on titanium in Ringer's physiological solution. <i>Biomaterials</i> , 2005, 26, 245-256.	11.4	174
125	Cathodic delamination of coil coatings produced with different Zn-based intermediate metallic layers. <i>Progress in Organic Coatings</i> , 2005, 53, 63-70.	3.9	21
126	Accelerated tests for the evaluation of the corrosion performance of coil-coated steel sheet: EIS under cathodic polarisation. <i>Progress in Organic Coatings</i> , 2005, 53, 71-76.	3.9	13

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127	Application of the scanning electrochemical microscope to the examination of organic coatings on metallic substrates. <i>Progress in Organic Coatings</i> , 2005, 53, 177-182.	3.9	66
128	Revealing Structural Effects, Part II: The Influence of Molecular Structure on the Adsorption of Butanol Isomers on Platinum. <i>Chemistry - A European Journal</i> , 2005, 11, 3309-3317.	3.3	7
129	Coil-coated steel: corrosion resistance and adhesion as a function of the composition of the intermediate galvanic layer. <i>Journal of Adhesion Science and Technology</i> , 2005, 19, 1141-1155.	2.6	9
130	In situ monitoring of electroactive species by using the scanning electrochemical microscope. Application to the investigation of degradation processes at defective coated metals. <i>Corrosion Science</i> , 2005, 47, 3312-3323.	6.6	77
131	Origins of pitting corrosion. <i>Corrosion Engineering Science and Technology</i> , 2004, 39, 25-30.	1.4	307
132	Electrochemical behavior of different preparations of plasma-sprayed hydroxyapatite coatings on Ti6Al4V substrate. <i>Journal of Biomedical Materials Research Part B</i> , 2004, 70A, 59-65.	3.1	14
133	Imaging concentration profiles of redox-active species in open-circuit corrosion processes with the scanning electrochemical microscope. <i>Electrochemistry Communications</i> , 2004, 6, 1212-1215.	4.7	96
134	Imaging metastable pits on austenitic stainless steel in situ at the open-circuit corrosion potential. <i>Electrochemistry Communications</i> , 2004, 6, 637-642.	4.7	126
135	Laboratory evaluation of corrosion resistance at metallic substrates by an organic coating: delamination effects. <i>Journal of Adhesion Science and Technology</i> , 2004, 18, 455-464.	2.6	9
136	Improvement in Pitting Resistance of Stainless Steel Surfaces by Prior Anodic Treatment in Metasilicate Solution. <i>Journal of the Electrochemical Society</i> , 2004, 151, B537.	2.9	23
137	Damage to paint coatings caused by electrolyte immersion as observed in situ by scanning electrochemical microscopy. <i>Corrosion Science</i> , 2004, 46, 2621-2628.	6.6	81
138	Resistance of metallic substrates protected by an organic coating containing aluminum powder. <i>Progress in Organic Coatings</i> , 2003, 46, 317-323.	3.9	54
139	Degradation characteristics of hydroxyapatite coatings on orthopaedic TiAlV in simulated physiological media investigated by electrochemical impedance spectroscopy. <i>Biomaterials</i> , 2003, 24, 4213-4221.	11.4	162
140	Revealing Structural Effects: Electrochemical Reactions of Butanols on Platinum. <i>Chemistry - A European Journal</i> , 2002, 8, 2134.	3.3	6
141	Resistance to corrosion of galvanized steel covered with an epoxy-polyamide primer coating. <i>Progress in Organic Coatings</i> , 2001, 41, 167-170.	3.9	39
142	Investigation of the corrosion resistance characteristics of pigments in alkyd coatings on steel. <i>Progress in Organic Coatings</i> , 2001, 43, 282-285.	3.9	48
143	Investigation of the electrochemical reactivity of benzyl alcohol at platinum and palladium electrodes. <i>Electrochimica Acta</i> , 2000, 45, 1645-1653.	5.2	20
144	Electrochemical reactions of benzoic acid on platinum and palladium studied by DEMS. Comparison with benzyl alcohol. <i>Journal of Electroanalytical Chemistry</i> , 2000, 494, 127-135.	3.8	22

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145	Chromate-Free Zinc Conversion Coatings Characterised by Grazing Incidence X-Ray Diffractometry. <i>Mikrochimica Acta</i> , 2000, 133, 137-142.	5.0	6
146	Electrochemical characteristics of steel coated with TiN and TiAlN coatings. <i>Corrosion Science</i> , 2000, 42, 2201-2211.	6.6	86
147	Electrochemical impedance spectroscopy investigation of the corrosion at metallic substrates covered by organic coatings. <i>Journal of Adhesion Science and Technology</i> , 2000, 14, 1321-1330.	2.6	25
148	Spectroscopic Investigation of the Adsorbates of Benzyl Alcohol on Palladium. <i>Langmuir</i> , 2000, 16, 8456-8462.	3.5	19
149	DEMS study on the adsorption and reactivity of benzyl alcohol on palladium and platinum. <i>Electrochimica Acta</i> , 1998, 44, 1415-1422.	5.2	21
150	Electrochemical study of the interaction of thiourea with copper electrodes in alkaline aqueous solution. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1996, 92, 2725-2729.	1.7	2
151	Some experiments regarding the corrosion inhibition of copper by benzotriazole and potassium ethyl xanthate. <i>Journal of Electroanalytical Chemistry</i> , 1996, 411, 161-165.	3.8	28
152	A preliminary investigation into the microscopic depassivation of passive titanium implant materials in vitro. <i>Journal of Materials Science: Materials in Medicine</i> , 1996, 7, 337-343.	3.6	55
153	Observations of localised instability of passive titanium in chloride solution. <i>Electrochimica Acta</i> , 1995, 40, 1881-1888.	5.2	112
154	Kinetics of copper passivation and pitting corrosion in Na ₂ SO ₄ containing dilute NaOH aqueous solution. <i>Electrochimica Acta</i> , 1994, 39, 2619-2628.	5.2	46
155	Electronic configurations in potentiostats for the correction of ohmic losses. <i>Electroanalysis</i> , 1994, 6, 531-542.	2.9	15
156	The electrochemical faceting of copper in 85% aqueous o-phosphoric acid by using a potential reversal technique. <i>Applied Surface Science</i> , 1994, 81, 387-398.	6.1	9
157	A mechanistic approach to the electroformation of anodic layers on copper and their electroreduction in aqueous solutions containing NaHCO ₃ and Na ₂ CO ₃ . <i>Electrochimica Acta</i> , 1993, 38, 703-715.	5.2	20
158	The kinetics of pitting corrosion of copper in alkaline solutions containing sodium perchlorate. <i>Electrochimica Acta</i> , 1992, 37, 1437-1443.	5.2	36
159	Pitting corrosion of polycrystalline annealed copper in alkaline sodium perchlorate solutions containing benzotriazole. <i>Journal of Applied Electrochemistry</i> , 1992, 22, 1129-1134.	2.9	9
160	Electrochemical behaviour of copper in aqueous moderate alkaline media, containing sodium carbonate and bicarbonate, and sodium perchlorate. <i>Electrochimica Acta</i> , 1990, 35, 1337-1343.	5.2	77
161	Induced reactant adsorption accompanying the reduction of cadmium(II) ions from 1 M KF solutions containing thiourea at elevated concentrations: an ac admittance study. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989, 264, 195-215.	0.1	10
162	The reaction pathway of the Cd(II) reduction in mixed (0.8 \hat{a} x) M NaClO ₄ + xM NaF base electrolytes. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1989, 264, 217-234.	0.1	11

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163	The catalysis of the electrochemical reduction of cadmium ions by chloride ions. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1988, 245, 167-189.	0.1	18
164	On the adsorption of cadmium(II) ions on a HMDE from KF + thiourea aqueous solutions. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1987, 216, 273-282.	0.1	10
165	On the catalytic effect of thiourea on the electrochemical reduction of cadmium(II) ions at the DME from aqueous 1 M KF solutions. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1986, 201, 33-45.	0.1	48
166	Preparation and reproducibility of a thermal silver-silver chloride electrode. Journal of Applied Electrochemistry, 1985, 15, 727-735.	2.9	6
167	New Developments in Scanning Microelectrochemical Techniques: A Highly Sensitive Route to Evaluate Degradation Reactions and Protection Methods with Chemical Selectivity. Applied Mechanics and Materials, 0, 875, 19-23.	0.2	0