

Josã© J Garcã-a-Jareã±o

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Electrochemical impedance spectroscopy for studying passive layers on steel rebars immersed in alkaline solutions simulating concrete pores. <i>Electrochimica Acta</i> , 2007, 52, 7634-7641.	5.2	197
2	Ac-Electrogravimetry Study of Electroactive Thin Films. I. Application to Prussian Blue. <i>Journal of Physical Chemistry B</i> , 2002, 106, 3182-3191.	2.6	103
3	Impedance analysis of Prussian Blue films deposited on ITO electrodes. <i>Electrochimica Acta</i> , 1995, 40, 1113-1119.	5.2	76
4	Ac-Electrogravimetry Study of Electroactive Thin Films. II. Application to Polypyrrole. <i>Journal of Physical Chemistry B</i> , 2002, 106, 3192-3201.	2.6	75
5	Voltammetric study of the stability of deposited Prussian blue films against successive potential cycling. <i>Electrochimica Acta</i> , 1994, 39, 437-442.	5.2	68
6	Study by EQCM on the voltammetric electrogeneration of poly(neutral red). The effect of the pH and the nature of cations and anions on the electrochemistry of the films. <i>Electrochimica Acta</i> , 2003, 48, 4039-4048.	5.2	66
7	Anodic growth of passive layers on steel rebars in an alkaline medium simulating the concrete pores. <i>Electrochimica Acta</i> , 2006, 52, 47-53.	5.2	65
8	Validation of the mass response of a quartz crystal microbalance coated with Prussian Blue film for ac electrogravimetry. <i>Electrochemistry Communications</i> , 2000, 2, 195-200.	4.7	55
9	A theoretical approach of impedance spectroscopy during the passivation of steel in alkaline media. <i>Electrochimica Acta</i> , 2009, 54, 7222-7226.	5.2	54
10	Electrochemical study of Nafion membranes/Prussian blue films on ITO electrodes. <i>Electrochimica Acta</i> , 1996, 41, 2675-2682.	5.2	51
11	Vis/NIR spectroelectrochemical analysis of poly-(Azure A) on ITO electrode. <i>Electrochemistry Communications</i> , 2006, 8, 549-553.	4.7	51
12	Synchrotron Structural Characterization of Electrochemically Synthesized Hexacyanoferrates Containing K ⁺ : A Revisited Analysis of Electrochemical Redox. <i>Journal of Physical Chemistry C</i> , 2008, 112, 13264-13271.	3.1	50
13	Charge transport in prussian blue films deposited on ito electrodes. <i>Electrochimica Acta</i> , 1996, 41, 835-841.	5.2	47
14	EIS and Ac-Electrogravimetry Study of PB Films in KCl, NaCl, and CsCl Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , 2003, 107, 11321-11330.	2.6	44
15	EQCM and EIS studies of Znq ₂ +2e ⁻ , ZnO electrochemical reaction in moderated acid medium. <i>Journal of Electroanalytical Chemistry</i> , 2003, 558, 25-33.	3.8	43
16	Changeover during in Situ Compositional Modulation of Hexacyanoferrate (Prussian Blue) Material. <i>Journal of the American Chemical Society</i> , 2006, 128, 17146-17152.	13.7	42
17	A numerical approach to the voltammograms of the reduction of Prussian Blue films on ITO electrodes. <i>Electrochimica Acta</i> , 1997, 42, 1473-1480.	5.2	41
18	Influence of Water Composition and Substrate on Electrochemical Scaling. <i>Journal of the Electrochemical Society</i> , 2000, 147, 2151.	2.9	41

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19	Electrochemical Behavior of Electrodeposited Prussian Blue Films on ITO Electrode: An Attractive Laboratory Experience. <i>Journal of Chemical Education</i> , 1998, 75, 881.	2.3	40
20	The role of potassium and hydrogen ions in the Prussian Blue K_x , Everitt's Salt process. <i>Electrochimica Acta</i> , 1998, 44, 395-405.	5.2	37
21	Chronoamperometry of prussian blue films on ITO electrodes: ohmic drop and film thickness effect. <i>Electrochimica Acta</i> , 1999, 44, 4753-4762.	5.2	35
22	Electromechanical Phase Transition in Hexacyanometallate Nanostructure (Prussian Blue). <i>Journal of the American Chemical Society</i> , 2007, 129, 7121-7126.	13.7	35
23	The correlation between electrochemical impedance spectra and voltammograms of PB films in aqueous NH_4Cl and CsCl . <i>Electrochimica Acta</i> , 1998, 43, 1045-1052.	5.2	34
24	Ohmic drop effect on the voltammetric behaviour of graphite + polyethylene composite electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1997, 422, 91-97.	3.8	31
25	Innovative Combination of Three Alternating Current Relaxation Techniques: Electrical Charge, Mass, and Color Impedance Spectroscopy. Part II: Prussian Blue K_x Everitt's Salt Process. <i>Journal of Physical Chemistry C</i> , 2009, 113, 8438-8446.	3.1	31
26	Temperature dependence of impedance spectra of Prussian Blue films deposited on ITO electrodes. <i>Electrochimica Acta</i> , 1998, 43, 235-243.	5.2	30
27	Cyclic voltammetric generation and electrochemical quartz crystal microbalance characterization of passive layer of nickel in a weakly acid medium. <i>Journal of Solid State Electrochemistry</i> , 2005, 9, 684-690.	2.5	28
28	Kinetic calculations of the Ni anodic dissolution from EIS. <i>Journal of Solid State Electrochemistry</i> , 2005, 9, 83-90.	2.5	27
29	Mechanism for Interplay between Electron and Ionic Fluxes in $\text{K}_x\text{Fe}_k[\text{Fe}(\text{CN})_6]_{1-x}\cdot m\text{H}_2\text{O}$ Compounds. <i>Journal of Physical Chemistry B</i> , 2006, 110, 2715-2722.	2.6	27
30	Electrochromic Switching Mechanism of Iron Hexacyanoferrates Molecular Compounds: The Role of $\text{Fe}^{2+}(\text{CN})_6$ Vacancies. <i>Journal of Physical Chemistry C</i> , 2009, 113, 9916-9920.	3.1	27
31	An approach to the electrochemical activity of poly-(phenothiazines) by complementary electrochemical impedance spectroscopy and Vis-NIR spectroscopy. <i>Electrochimica Acta</i> , 2010, 55, 6128-6135.	5.2	27
32	Usefulness of $F(dm/dQ)$ Function for Elucidating the Ions Role in PB Films. <i>Journal of the Electrochemical Society</i> , 2007, 154, F134.	2.9	26
33	Electrochemical impedance spectroscopy of conductor-insulator composite electrodes: Properties in the blocking and diffusive regimes. <i>Journal of Electroanalytical Chemistry</i> , 1998, 444, 173-186.	3.8	25
34	Ohmic drop of Prussian-blue/graphite+epoxy electrodes. <i>Electrochimica Acta</i> , 1999, 45, 789-795.	5.2	25
35	Graphical Analysis of Electrochemical Impedance Spectroscopy of Two Consecutive Irreversible Electron Transfers. 1. Theoretical Study of the Anodic Dissolution of Metals. <i>Journal of Physical Chemistry B</i> , 2005, 109, 4584-4592.	2.6	25
36	Electronic Perspective on the Electrochemistry of Prussian Blue Films. <i>Journal of the Electrochemical Society</i> , 2009, 156, P74.	2.9	24

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37	Innovative Combination of Three Alternating Current Relaxation Techniques: Electrical Charge, Mass, and Color Impedance Spectroscopy. Part I: The Tool. <i>Journal of Physical Chemistry C</i> , 2009, 113, 8430-8437.	3.1	24
38	Impedance analysis of graphite + polyethylene and graphite + epoxy composite electrodes. <i>Journal of Electroanalytical Chemistry</i> , 1995, 399, 115-120.	3.8	23
39	Identification of Processes Associated with Different Iron Sites in the Prussian Blue Structure by in Situ Electrochemical, Gravimetric, and Spectroscopic Techniques in the dc and ac Regimes. <i>Journal of Physical Chemistry C</i> , 2012, 116, 1935-1947.	3.1	23
40	Kinetics of zinc anodic dissolution from the EIS characteristic points. <i>Electrochemistry Communications</i> , 2003, 5, 722-727.	4.7	22
41	Spectroelectrochemical Identification of the Active Sites for Protons and Anions Insertions into Poly-(Azure A) Thin Polymer Films. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14230-14237.	3.1	22
42	Kinetic Aspects of Ion Exchange in $\text{K}_2\text{Fe}[\text{Fe}(\text{CN})_6] \cdot x\text{H}_2\text{O}$ Compounds: A Combined Electrical and Mass Transfer Functions Approach. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19352-19363.	2.6	20
43	Electrochemical Quartz Crystal Microbalance Study of Copper Electrochemical Reaction in Acid Medium Containing Chlorides. <i>Journal of the Electrochemical Society</i> , 2006, 153, J32.	2.9	20
44	Electrochemical reduction of the nitrite to ammonium ions in presence of $[\text{MoO}_2(\text{O}_2\text{C}(\text{S})\text{C}_6\text{H}_5)_2]^{2-}$. <i>Electrochimica Acta</i> , 1995, 40, 1121-1126.	5.2	19
45	Calculation of the surface concentration of Zn(I) from the anodic voltammetric peak of zinc combined with the QCM results. <i>Electrochemistry Communications</i> , 2004, 6, 903-907.	4.7	19
46	Insights on the Mechanism of Insoluble-to-Soluble Prussian Blue Transformation. <i>Journal of the Electrochemical Society</i> , 2009, 156, P149.	2.9	19
47	Redox switching of Prussian blue thin films investigated by ac-electrogravimetry. <i>Electrochimica Acta</i> , 2012, 84, 35-48.	5.2	19
48	Prussian blue films deposited on graphite+epoxy composite electrodes: electrochemical detection of the second percolation threshold. <i>Journal of Electroanalytical Chemistry</i> , 2000, 484, 33-40.	3.8	18
49	Analysis of an impedance function of zinc anodic dissolution. <i>Journal of Electroanalytical Chemistry</i> , 2004, 572, 235-247.	3.8	18
50	Surface structure determination by SEM image processing and electrochemical impedance of graphite+polyethylene composite electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2004, 566, 159-167.	3.8	18
51	Calculation of the rate constants of nickel electrodisolution in acid medium from EIS. <i>Journal of Solid State Electrochemistry</i> , 2006, 10, 920-928.	2.5	18
52	Electrochemistry and electrocatalysis of a Pt@poly(neutral red) hybrid nanocomposite. <i>Electrochimica Acta</i> , 2015, 171, 165-175.	5.2	17
53	Kramers-Kronig transformation, dc behaviour and steady state response of the Warburg impedance for a disk electrode inlaid in an insulating surface. <i>Journal of Electroanalytical Chemistry</i> , 2002, 536, 11-18.	3.8	16
54	Resonant x-ray diffraction as a tool to calculate mixed valence ratios: Application to Prussian Blue materials. <i>Applied Physics Letters</i> , 2008, 92, 264103.	3.3	16

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55	Ionic and Free Solvent Motion in Poly(azure A) Studied by ac-Electrogravimetry. Journal of Physical Chemistry C, 2011, 115, 11132-11139.	3.1	16
56	Identification of electroactive sites in Prussian Yellow films. Electrochimica Acta, 2013, 113, 825-833.	5.2	16
57	Quantification of electrochromic kinetics by analysis of RGB digital video images. Electrochemistry Communications, 2018, 93, 86-90.	4.7	15
58	Correlation between the fractal dimension of the electrode surface and the EIS of the zinc anodic dissolution for different kinds of galvanized steel. Electrochemistry Communications, 2004, 6, 148-152.	4.7	14
59	Kinetic and Mechanistic Aspects of a Poly(o-toluidine)-Modified Gold Electrode. 1. Simultaneous Cyclic Spectroelectrochemistry and Electrogravimetry Studies in H ₂ SO ₄ Solutions. Journal of Physical Chemistry C, 2012, 116, 15620-15629.	3.1	14
60	Electrochemically induced free solvent transfer in thin poly(3,4-ethylenedioxythiophene) films. Electrochimica Acta, 2015, 164, 21-30.	5.2	14
61	Use of RGB digital video analysis to study electrochemical processes involving color changes. Electrochemistry Communications, 2017, 78, 38-42.	4.7	14
62	Viscoelastic potential-induced changes in acoustically thin films explored by quartz crystal microbalance with motional resistance monitoring. Electrochimica Acta, 2015, 176, 1454-1463.	5.2	13
63	Formation of a Copper Oxide Layer as a Key Step in the Metallic Copper Deposition Mechanism. Journal of Physical Chemistry C, 2008, 112, 4275-4280.	3.1	12
64	Oscillatory Changes of the Heterogeneous Reactive Layer Detected with the Motional Resistance during the Galvanostatic Deposition of Copper in Sulfuric Solution. Langmuir, 2015, 31, 12664-12673.	3.5	12
65	Graphical Analysis of Electrochemical Impedance Spectroscopy of Two Consecutive Irreversible Electron Transfers. 2. Zinc Anodic Dissolution in Acid Media. Journal of Physical Chemistry B, 2005, 109, 4593-4598.	2.6	11
66	Growth of passive layers on nickel during their voltammetric anodic dissolution in a weakly acid medium. Electrochimica Acta, 2006, 52, 658-664.	5.2	11
67	A kinetic interpretation of a negative time constant in impedance equivalent circuits for the dissolution/passive transition. Electrochimica Acta, 2007, 52, 7903-7909.	5.2	11
68	Kinetic and Mechanistic Aspects of a Poly(o-Toluidine)-Modified Gold Electrode. 2. Alternating Current Electrogravimetry Study in H ₂ SO ₄ Solutions. Journal of Physical Chemistry C, 2012, 116, 15630-15640.	3.1	11
69	Effects of anion size on the electrochemical behavior of H ₂ SO ₄ -structured poly(o-toluidine) films. An ac-electrogravimetry study in acid solutions. Electrochimica Acta, 2014, 132, 561-573.	5.2	11
70	Evaluation of the electrochemical anion recognition of poly(Azure A) in	5.2	11
71	Determination of time dependence of passive layer on nickel from instantaneous mass/charge function F(dm/dQ) in competitive passivation/dissolution conditions. Electrochemistry Communications, 2006, 8, 683-687.	4.7	10
72	Electrochemical impedance spectroscopy as a tool to estimate thickness in PB films. Electrochemistry Communications, 2006, 8, 371-374.	4.7	10

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73	An electromechanical perspective on the metal/solution interfacial region during the metallic zinc electrodeposition. <i>Electrochimica Acta</i> , 2009, 54, 6046-6052.	5.2	10
74	Effects of anions size on the redox behavior of poly(o-toluidine) in acid solutions. An in situ vis-NIR cyclic spectroelectrogravimetry study. <i>Electrochimica Acta</i> , 2014, 125, 83-93.	5.2	10
75	Effect of Anions and Oxygen on the Kinetics of the Anodic Dissolution of Nickel. <i>Journal of the Electrochemical Society</i> , 2006, 153, B206.	2.9	9
76	Evidence of Magnetoresistance in the Prussian Blue Lattice during a Voltammetric Scan. <i>Journal of Physical Chemistry C</i> , 2008, 112, 20099-20104.	3.1	9
77	The fractal dimension as estimator of the fractional content of metal matrix composite materials. <i>Journal of Solid State Electrochemistry</i> , 2009, 13, 1599-1603.	2.5	9
78	Polymer dynamics in thin p-type conducting films investigated by ac-electrogravimetry. Kinetics aspects on anion exclusion, free solvent transfer, and conformational changes in poly(o-toluidine). <i>Electrochimica Acta</i> , 2015, 153, 33-43.	5.2	9
79	Spatiotemporal colorimetry to reveal electrochemical kinetics of poly(o-toluidine) films along ITO surface. <i>Electrochimica Acta</i> , 2018, 269, 350-358.	5.2	9
80	Determination of the electroactive area of graphite+polyethylene composite electrodes. Uncompensated resistance effects and convolution analysis of chronoamperograms. <i>Journal of Electroanalytical Chemistry</i> , 1998, 443, 41-48.	3.8	8
81	Anodic Dissolution of Nickel across Two Consecutive Electron Transfers. <i>Journal of the Electrochemical Society</i> , 2007, 154, C371.	2.9	8
82	Motional Resistance Evaluation of the Quartz Crystal Microbalance to Study the Formation of a Passive Layer in the Interfacial Region of a Copper Diluted Sulfuric Solution. <i>Langmuir</i> , 2015, 31, 9655-9664.	3.5	8
83	Simulation of Impedance Spectra: A Computational and Electrochemical Exercise for University Students. <i>Journal of Chemical Education</i> , 2000, 77, 738.	2.3	7
84	Thermodynamic Aspects of Ion Intercalation in $\text{K}_x\text{Fe}_k[\text{Fe}(\text{CN})_6]_l \cdot m\text{H}_2\text{O}$ Compounds: Application to the Everit's Salt/Prussian Blue Transition. <i>Journal of Physical Chemistry B</i> , 2006, 110, 19364-19368.	2.6	7
85	The role of NH_4^+ cations on the electrochemistry of Prussian Blue studied by electrochemical, mass, and color impedance spectroscopy. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 2555-2564.	2.5	7
86	RGB video electrochemistry of copper electrodeposition/electrodissolution in acid media on a ternary graphite:copper:polypropylene composite electrode. <i>Electrochimica Acta</i> , 2019, 305, 72-80.	5.2	7
87	Surface modification of graphite+polymer composite and ITO electrodes by Nafion®+cupromeronic phthalocyanine films. <i>Electrochimica Acta</i> , 1999, 45, 797-808.	5.2	6
88	Mass/charge balance as a tool to estimate dimensional change in polypyrrole-based actuators. <i>Electrochemistry Communications</i> , 2006, 8, 195-199.	4.7	6
89	Correction of mass drift in ac-electrogravimetry of Prussian Yellow films. Mass impedance under apparently non-steady state condition. <i>Electrochimica Acta</i> , 2014, 138, 200-209.	5.2	6
90	Kinetics of Surface Chemical Reactions from a Digital Video. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2050-2059.	3.1	6

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91	Aplicación de un puente LCR en la caracterización de superficies de niquel tratadas voltamperométricamente en medio ácido en ausencia y presencia de ion cloruro. Revista De Metalurgia, 2003, 39, 346-356.	0.5	6
92	Electrical properties of EVA filled by zinc powder. Journal of Materials Science, 2006, 41, 6396-6402.	3.7	5
93	Electrochemical Stabilization of Prussian Blue Films in NH4Cl Aqueous Medium. ECS Transactions, 2011, 35, 53-61.	0.5	5
94	Evaluating the Practical Use of Digital Video to Study the Effect of Sheet Resistance of Transparent Indium-Tin Oxide Electrodes Using the Galvanostatic Deposition of Poly(o-toluidine). Journal of the Electrochemical Society, 2018, 165, G101-G107.	2.9	5
95	Singular points of electrochemical impedance function. Applied Surface Science, 2004, 238, 449-456.	6.1	4
96	An approximate theoretical impedance analysis of the anodic dissolution of nickel across nickel(II) stabilised by means of competitive anions. Electrochimica Acta, 2007, 52, 4062-4072.	5.2	4
97	Ageing Effect on the Electrochemical Properties in Poly(Azure A) Films. Journal of the Electrochemical Society, 2017, 164, H593-H602.	2.9	4
98	Mechanism for Interplay between Electron and Ionic Fluxes in $\text{K}_x\text{Fe}_k[\text{Fe}(\text{CN})_6] \cdot m\text{H}_2\text{O}$ Compounds. Journal of Physical Chemistry B, 2006, 110, 10208-10208.	2.6	3
99	Interfacial Role of Cesium in Prussian Blue Films. Journal of the Electrochemical Society, 2015, 162, H727-H733.	2.9	3
100	Poly(neutral red) on passivated nickel films. New insights through EQCM measurements. Russian Journal of Electrochemistry, 2016, 52, 1137-1149.	0.9	3
101	Alternating current electrogravimetry of copper electrodisolution in a sulfuric acid solution. Electrochimica Acta, 2017, 235, 374-383.	5.2	3
102	Electrochromic Performances of Poly(Azure A) Films from Digital Video-Electrochemistry (DVEC). Journal of the Electrochemical Society, 2020, 167, 106514.	2.9	3
103	Digital video-electrochemistry (DVEC) to assess electrochromic materials in the frequency domain: RGB colorimetry impedance spectroscopy. Electrochimica Acta, 2021, 366, 137340.	5.2	3
104	Measurement of the impedance of a liquid paint with aluminium powder by means of a LCR meter. Progress in Organic Coatings, 2006, 57, 110-114.	3.9	2
105	Electrochemical dissolution and passivation of nickel powder randomly dispersed in a graphite+polypropylene matrix. Journal of Applied Electrochemistry, 2007, 37, 241-248.	2.9	2
106	Ionic Exchanges of Poly-(Azure A) Studied by AC-Electrogravimetry. ECS Transactions, 2011, 35, 43-51.	0.5	2
107	Characterization of a New Polypropylene+Graphite+Zinc Ternary Composite. ECS Transactions, 2013, 50, 71-80.	0.5	2
108	Comments on the paper entitled "The formulation and modelling of the anodic dissolution of zinc through adsorbed intermediates" by G.G. L'ning, and G. Horányi [J. Electroanal. Chem. 583 (2005) 148-154]. Journal of Electroanalytical Chemistry, 2007, 600, 369-371.	3.8	1

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109	Electrochromic Behavior of Prussian Yellow. ECS Transactions, 2013, 50, 435-447.	0.5	1
110	Spectroelectrogravimetry of the electrical conductivity activation in poly(o-toluidine) films. Journal of Solid State Electrochemistry, 2020, 24, 2353-2363.	2.5	1
111	The role of lithium, perchlorate and water during electrochemical processes in poly(3,4-ethylenedioxythiophene) films in LiClO_4 aqueous solutions. Journal of Electroanalytical Chemistry, 2021, 897, 115580.	3.8	1
112	Digital video electrochemistry (DVEC) applied to the study of Prussian Blue films. ChemElectroChem, 2022, 9, .	3.4	1
113	Correlation between Microscopic Observations and Electrochemical Behaviour of Different Kind of Galvanized Steel. Materials Science Forum, 2005, 480-481, 345-350.	0.3	0
114	Response to the "Comment on the paper "Kinetic calculations of Ni anodic dissolution from EIS" (J. Tj. ETQq0 0 0 rgBT /Overloc Electrochemistry, 2006, 11, 444-447.	2.5	0
115	Voltammetric Characterization of Nickel Hydroxide Grown on Nickel/Epoxy Moldable Electrodes. ECS Transactions, 2017, 77, 837-846.	0.5	0
116	Interfacial Role of Cesium in Prussian Blue Films. ECS Transactions, 2017, 77, 1691-1697.	0.5	0
117	Hydrogen Ion Role on the Reduction of Poly-(Neutral Red). ECS Transactions, 2017, 77, 1929-1936.	0.5	0
118	Étude de films bleu de Prusse/Nafion [®] 117 par microbalance à quartz en régime dynamique. Matériaux Et Techniques, 2007, 95, 435-442.	0.9	0