JosÃ© J GarcÃ-a-JareÃ±o

List of Publications by Year
in descending order

118 papers	2,485 citations	201674 27 h-index	254184 43 g-index
118 all docs	118 docs citations	118 times ranked	1520 citing authors

#	Article	IF	Citations
1	Digital video electrochemistry (DVEC) applied to the study of Prussian Blue films. ChemElectroChem, 2022, 9, .	3.4	1
2	Digital video-electrochemistry (DVEC) to assess electrochromic materials in the frequency domain: RGB colorimetry impedance spectroscopy. Electrochimica Acta, 2021, 366, 137340.	5.2	3
3	The role of lithium, perchlorate and water during electrochemical processes in poly(3,4-ethylenedioxythiophene) films in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si14.svg"><mml:mrow><mml:mi mathvariant="italic">LiCl</mml:mi><mml:msub><mml:mi>O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math> aqueous solutions. Journal of Electroanalytical Chemistry, 2021, 897, 115580.	3.8	1
4	Kinetics of Surface Chemical Reactions from a Digital Video. Journal of Physical Chemistry C, 2020, 124, 2050-2059.	3.1	6
5	Spectroelectrogravimetry of the electrical conductivity activation in poly(o-toluidine) films. Journal of Solid State Electrochemistry, 2020, 24, 2353-2363.	2.5	1
6	Electrochromic Performances of Poly(Azure A) Films from Digital Video-Electrochemistry (DVEC). Journal of the Electrochemical Society, 2020, 167, 106514.	2.9	3
7	RGB video electrochemistry of copper electrodeposition/electrodissolution in acid media on a ternary graphite:copper:polypropylene composite electrode. Electrochimica Acta, 2019, 305, 72-80.	5.2	7
8	Spatiotemporal colorimetry to reveal electrochemical kinetics of poly(o-toluidine) films along ITO surface. Electrochimica Acta, 2018, 269, 350-358.	5.2	9
9	Quantification of electrochromic kinetics by analysis of RGB digital video images. Electrochemistry Communications, 2018, 93, 86-90.	4.7	15
10	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
11	Use of RGB digital video analysis to study electrochemical processes involving color changes. Electrochemistry Communications, 2017, 78, 38-42.	4.7	14
12	Alternating current electrogravimetry of copper electrodissolution in a sulfuric acid solution. Electrochimica Acta, 2017, 235, 374-383.	5.2	3
13	Voltammetric Characterization of Nickel Hydroxide Grown on Nickel/Epoxy Moldable Electrodes. ECS Transactions, 2017, 77, 837-846.	0.5	0
14	Interfacial Role of Cesium in Prussian Blue Films. ECS Transactions, 2017, 77, 1691-1697.	0.5	0
15	Ageing Effect on the Electrochemical Properties in Poly(Azure A) Films. Journal of the Electrochemical Society, 2017, 164, H593-H602.	2.9	4
16	Hydrogen Ion Role on the Reduction of Poly-(Neutral Red). ECS Transactions, 2017, 77, 1929-1936.	0.5	0
17	Poly(neutral red) on passivated nickel films. New insights through EQCM measurements. Russian Journal of Electrochemistry, 2016, 52, 1137-1149.	0.9	3
18	Evaluation of the electrochemical anion recognition of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si7.gif" overflow="scroll"><mml:mrow><mml:mtext>N</mml:mtext><mml:msubsup><mml:mrow><mml:mtext>O</mml:mtext></mml:mrow><mml:mrow><mml:mtext>3</mml:mtext></mml:mrow><mml:mrow><mml:mo>−</mml:mo></mml:mrow></mml:msubsup></mml:mrow></mml:math> poly(Azure A) in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si9.gif" overflow="scroll"><mml:mrow><mml:mtext>N</mml:mtext><mml:msubsup><mml:mtext>O</mml:mtext><mml:mn>3</mml:mn><mml:mo>−</mml:mo></mml:msubsup></mml:mrow></mml:math>. Electrochimica Acta, 2016, 194, 292-303.	5.2	11

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19	Electrochemistry and electrocatalysis of a Pt@poly(neutral red) hybrid nanocomposite. Electrochimica Acta, 2015, 171, 165-175.	5.2	17
20	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. Langmuir, 2015, 31, 9655-9664.	3.5	8
21	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
22	The role of NH 4 + cations on the electrochemistry of Prussian Blue studied by electrochemical, mass, and color impedance spectroscopy. Journal of Solid State Electrochemistry, 2015, 19, 2555-2564.	2.5	7
23	Electrochemically induced free solvent transfer in thin poly(3,4-ethylenedioxythiophene) films. Electrochimica Acta, 2015, 164, 21-30.	5.2	14
24	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
25	Interfacial Role of Cesium in Prussian Blue Films. Journal of the Electrochemical Society, 2015, 162, H727-H733.	2.9	3
26	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). Electrochimica Acta, 2015, 153, 33-43.	5.2	9
27	Effects of anions size on the redox behavior of poly(o-toluidine) in acid solutions. An in situ vis-NIR cyclic spectroelectrogravimetry study. Electrochimica Acta, 2014, 125, 83-93.	5.2	10
28	Correction of mass drift in ac-electrogravimetry of Prussian Yellow films. Mass impedance under apparently non-steady state condition. Electrochimica Acta, 2014, 138, 200-209.	5.2	6
29	Effects of anion size on the electrochemical behavior of H2SO4-structured poly(o-toluidine) films. An ac-electrogravimetry study in acid solutions. Electrochimica Acta, 2014, 132, 561-573.	5.2	11
30	Identification of electroactive sites in Prussian Yellow films. Electrochimica Acta, 2013, 113, 825-833.	5.2	16
31	Electrochromic Behavior of Prussian Yellow. ECS Transactions, 2013, 50, 435-447.	0.5	1
32	Characterization of a New Polypropylene+Graphite+Zinc Ternary Composite. ECS Transactions, 2013, 50, 71-80.	0.5	2
33	Kinetic and Mechanistic Aspects of a Poly(o-Toluidine)-Modified Gold Electrode. 2. Alternating Current Electrogravimetry Study in H2SO4 Solutions. Journal of Physical Chemistry C, 2012, 116, 15630-15640.	3.1	11
34	Kinetic and Mechanistic Aspects of a Poly(o-toluidine)-Modified Gold Electrode. 1. Simultaneous Cyclic Spectroelectrochemistry and Electrogravimetry Studies in H2SO4 Solutions. Journal of Physical Chemistry C, 2012, 116, 15620-15629.	3.1	14
35	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. Journal of Physical Chemistry C, 2012, 116, 1935-1947.	3.1	23
36	Redox switching of Prussian blue thin films investigated by ac-electrogravimetry. Electrochimica Acta, 2012, 84, 35-48.	5.2	19

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37	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
38	Electrochemical Stabilization of Prussian Blue Films in NH4Cl Aqueous Medium. ECS Transactions, 2011, 35, 53-61.	0.5	5
39	Ionic Exchanges of Poly-(Azure A) Studied by AC-Electrogravimetry. ECS Transactions, 2011, 35, 43-51.	0.5	2
40	An approach to the electrochemical activity of poly-(phenothiazines) by complementary electrochemical impedance spectroscopy and Visâ€“NIR spectroscopy. Electrochimica Acta, 2010, 55, 6128-6135.	5.2	27
41	Electronic Perspective on the Electrochemistry of Prussian Blue Films. Journal of the Electrochemical Society, 2009, 156, P74.	2.9	24
42	Insights on the Mechanism of Insoluble-to-Soluble Prussian Blue Transformation. Journal of the Electrochemical Society, 2009, 156, P149.	2.9	19
43	The fractal dimension as estimator of the fractional content of metal matrix composite materials. Journal of Solid State Electrochemistry, 2009, 13, 1599-1603.	2.5	9
44	An electromechanical perspective on the metal/solution interfacial region during the metallic zinc electrodeposition. Electrochimica Acta, 2009, 54, 6046-6052.	5.2	10
45	A theoretical approach of impedance spectroscopy during the passivation of steel in alkaline media. Electrochimica Acta, 2009, 54, 7222-7226.	5.2	54
46	Innovative Combination of Three Alternating Current Relaxation Techniques: Electrical Charge, Mass, and Color Impedance Spectroscopy. Part I: The Tool. Journal of Physical Chemistry C, 2009, 113, 8430-8437.	3.1	24
47	Innovative Combination of Three Alternating Current Relaxation Techniques: Electrical Charge, Mass, and Color Impedance Spectroscopy. Part II: Prussian Blue â‡† Everittâ€™s Salt Process. Journal of Physical Chemistry C, 2009, 113, 8438-8446.	3.1	31
48	Electrochromic Switching Mechanism of Iron Hexacyanoferrates Molecular Compounds: The Role of Fe²⁺(CN)₆ Vacancies. Journal of Physical Chemistry C, 2009, 113, 9916-9920.	3.1	27
49	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
50	Synchrotron Structural Characterization of Electrochemically Synthesized Hexacyanoferrates Containing K+: A Revisited Analysis of Electrochemical Redox. Journal of Physical Chemistry C, 2008, 112, 13264-13271.	3.1	50
51	Evidence of Magnetoresistance in the Prussian Blue Lattice during a Voltammetric Scan. Journal of Physical Chemistry C, 2008, 112, 20099-20104.	3.1	9
52	Resonant x-ray diffraction as a tool to calculate mixed valence ratios: Application to Prussian Blue materials. Applied Physics Letters, 2008, 92, 264103.	3.3	16
53	Anodic Dissolution of Nickel across Two Consecutive Electron Transfers. Journal of the Electrochemical Society, 2007, 154, C371.	2.9	8
54	Spectroelectrochemical Identification of the Active Sites for Protons and Anions Insertions into Poly-(Azure A) Thin Polymer Films. Journal of Physical Chemistry C, 2007, 111, 14230-14237.	3.1	22

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55	Electromechanical Phase Transition in Hexacyanometallate Nanostructure (Prussian Blue). Journal of the American Chemical Society, 2007, 129, 7121-7126.	13.7	35
56	Usefulness of F(dm/dQ) Function for Elucidating the Ions Role in PB Films. Journal of the Electrochemical Society, 2007, 154, F134.	2.9	26
57	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
58	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
59	Comments on the paper entitled â€˜The formulation and modelling of the anodic dissolution of zinc through adsorbed intermediatesâ€™by G.G. LÃ¡ng, and G. HorÃ¡nyi [J. Electroanal. Chem. 583 (2005) 148â€“154] Journal of Electroanalytical Chemistry, 2007, 600, 369-371.	3.8	1
60	Electrochemical dissolution and passivation of nickel powder randomly dispersed in a graphiteÂ+Âpolypropylene matrix. Journal of Applied Electrochemistry, 2007, 37, 241-248.	2.9	2
61	Electrochemical impedance spectroscopy for studying passive layers on steel rebars immersed in alkaline solutions simulating concrete pores. Electrochimica Acta, 2007, 52, 7634-7641.	5.2	197
62	Ã‰tude de films bleu de Prusse/Nafion^{Â®} 117 par microbalance Ã quartz en rÃ©gime dynamique. Materiaux Et Techniques, 2007, 95, 435-442.	0.9	0
63	Thermodynamic Aspects of Ion Intercalation in KhFek[Fe(CN)6]lÂ·mH2O Compounds:â€‰ Application to the Everit's Salt/Prussian Blue Transition. Journal of Physical Chemistry B, 2006, 110, 19364-19368.	2.6	7
64	Changeover during in Situ Compositional Modulation of Hexacyanoferrate (Prussian Blue) Material. Journal of the American Chemical Society, 2006, 128, 17146-17152.	13.7	42
65	Kinetic Aspects of Ion Exchange in KhFek[Fe(CN)6]lÂ·mH2O Compounds:â€‰ A Combined Electrical and Mass Transfer Functions Approach. Journal of Physical Chemistry B, 2006, 110, 19352-19363.	2.6	20
66	Mechanism for Interplay between Electron and Ionic Fluxes in KhFek[Fe(CN)6]lÂ·mH2O Compounds. Journal of Physical Chemistry B, 2006, 110, 2715-2722.	2.6	27
67	Mechanism for Interplay between Electron and Ionic Fluxes in KhFek[Fe(CN)6]lÂ·mH2O Compounds. Journal of Physical Chemistry B, 2006, 110, 10208-10208.	2.6	3
68	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
69	Mass/charge balance as a tool to estimate dimensional change in polypyrrole-based actuators. Electrochemistry Communications, 2006, 8, 195-199.	4.7	6
70	Electrochemical impedance spectroscopy as a tool to estimate thickness in PB films. Electrochemistry Communications, 2006, 8, 371-374.	4.7	10
71	Vis/NIR spectroelectrochemical analysis of poly-(Azure A) on ITO electrode. Electrochemistry Communications, 2006, 8, 549-553.	4.7	51
72	Anodic growth of passive layers on steel rebars in an alkaline medium simulating the concrete pores. Electrochimica Acta, 2006, 52, 47-53.	5.2	65

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73	Electrical properties of EVA filled by zinc powder. Journal of Materials Science, 2006, 41, 6396-6402.	3.7	5
74	Calculation of the rate constants of nickel electrodissolution in acid medium from EIS. Journal of Solid State Electrochemistry, 2006, 10, 920-928.	2.5	18
75	Response to the â€œComment on the paper â€˜Kinetic calculations of Ni anodic dissolution from EISâ€™ (J) Tj ETQq1 1 0.784314 rgBT Electrochemistry, 2006, 11, 444-447.	2.5	0
76	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
77	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
78	Electrochemical Quartz Crystal Microbalance Study of Copper Electrochemical Reaction in Acid Medium Containing Chlorides. Journal of the Electrochemical Society, 2006, 153, J32.	2.9	20
79	Effect of Anions and Oxygen on the Kinetics of the Anodic Dissolution of Nickel. Journal of the Electrochemical Society, 2006, 153, B206.	2.9	9
80	Kinetic calculations of the Ni anodic dissolution from EIS. Journal of Solid State Electrochemistry, 2005, 9, 83-90.	2.5	27
81	Cyclic voltammetric generation and electrochemical quartz crystal microbalance characterization of passive layer of nickel in a weakly acid medium. Journal of Solid State Electrochemistry, 2005, 9, 684-690.	2.5	28
82	Correlationship between Microscopic Observations and Electrochemical Behaviour of Different Kind of Galvanized Steel. Materials Science Forum, 2005, 480-481, 345-350.	0.3	0
83	Graphical Analysis of Electrochemical Impedance Spectroscopy of Two Consecutive Irreversible Electron Transfers. 1. Theoretical Study of the Anodic Dissolution of Metals. Journal of Physical Chemistry B, 2005, 109, 4584-4592.	2.6	25
84	Graphical Analysis of Electrochemical Impedance Spectroscopy of Two Consecutive Irreversible Electron Transfers. 2.Â Zinc Anodic Dissolution in Acid Media. Journal of Physical Chemistry B, 2005, 109, 4593-4598.	2.6	11
85	Calculation of the surface concentration of Zn(I) from the anodic voltammetric peak of zinc combined with the QCM results. Electrochemistry Communications, 2004, 6, 903-907.	4.7	19
86	Analysis of an impedance function of zinc anodic dissolution. Journal of Electroanalytical Chemistry, 2004, 572, 235-247.	3.8	18
87	Surface structure determination by SEM image processing and electrochemical impedance of graphite+polyethylene composite electrodes. Journal of Electroanalytical Chemistry, 2004, 566, 159-167.	3.8	18
88	Singular points of electrochemical impedance function. Applied Surface Science, 2004, 238, 449-456.	6.1	4
89	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
90	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. Electrochimica Acta, 2003, 48, 4039-4048.	5.2	66

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91	EQCM and EIS studies of Znaq2++2eâ^'â‡„Zn0 electrochemical reaction in moderated acid medium. Journal of Electroanalytical Chemistry, 2003, 558, 25-33.	3.8	43
92	Kinetics of zinc anodic dissolution from the EIS characteristic points. Electrochemistry Communications, 2003, 5, 722-727.	4.7	22
93	EIS and Ac-Electrogravimetry Study of PB Films in KCl, NaCl, and CsCl Aqueous Solutions. Journal of Physical Chemistry B, 2003, 107, 11321-11330.	2.6	44
94	AplicaciÃ³n de un puente LCR en la caracterizaciÃ³n de superficies de nÃquel tratadas voltamperomÃ©tricamente en medio Ã¡cido en ausencia y presencia de ion cloruro. Revista De Metalurgia, 2003, 39, 346-356.	0.5	6
95	Ac-Electrogravimetry Study of Electroactive Thin Films. II. Application to Polypyrrole. Journal of Physical Chemistry B, 2002, 106, 3192-3201.	2.6	75
96	Ac-Electrogravimetry Study of Electroactive Thin Films. I. Application to Prussian Blue. Journal of Physical Chemistry B, 2002, 106, 3182-3191.	2.6	103
97	Kramersâ€“Kronig transformation, dc behaviour and steady state response of the Warburg impedance for a disk electrode inlaid in an insulating surface. Journal of Electroanalytical Chemistry, 2002, 536, 11-18.	3.8	16
98	Prussian blue films deposited on graphite+epoxy composite electrodes: electrochemical detection of the second percolation threshold. Journal of Electroanalytical Chemistry, 2000, 484, 33-40.	3.8	18
99	Validation of the mass response of a quartz crystal microbalance coated with Prussian Blue film for ac electrogravimetry. Electrochemistry Communications, 2000, 2, 195-200.	4.7	55
100	Simulation of Impedance Spectra: A Computational and Electrochemical Exercise for University Students. Journal of Chemical Education, 2000, 77, 738.	2.3	7
101	Influence of Water Composition and Substrate on Electrochemical Scaling. Journal of the Electrochemical Society, 2000, 147, 2151.	2.9	41
102	Chronoamperometry of prussian blue films on ITO electrodes: ohmic drop and film thickness effect. Electrochimica Acta, 1999, 44, 4753-4762.	5.2	35
103	Ohmic drop of Prussian-blue/graphite+epoxy electrodes. Electrochimica Acta, 1999, 45, 789-795.	5.2	25
104	Surface modification of graphite+polymer composite and ITO electrodes by NafionÂ®+cupromeronic phthalocyanine films. Electrochimica Acta, 1999, 45, 797-808.	5.2	6
105	Temperature dependence of impedance spectra of Prussian Blue films deposited on ITO electrodes. Electrochimica Acta, 1998, 43, 235-243.	5.2	30
106	The correlation between electrochemical impedance spectra and voltammograms of PB films in aqueous NH4Cl and CsCl. Electrochimica Acta, 1998, 43, 1045-1052.	5.2	34
107	The role of potassium and hydrogen ions in the Prussian Blue â‡„ Everitt's Salt process.. Electrochimica Acta, 1998, 44, 395-405.	5.2	37
108	Determination of the electroactive area of graphite+polyethylene composite electrodes. Uncompensated resistance effects and convolution analysis of chronoamperograms. Journal of Electroanalytical Chemistry, 1998, 443, 41-48.	3.8	8

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109	Electrochemical impedance spectroscopy of conductorâ€"insulator composite electrodes: Properties in the blocking and diffusive regimes. Journal of Electroanalytical Chemistry, 1998, 444, 173-186.	3.8	25
110	Electrochemical Behavior of Electrodeposited Prussian Blue Films on ITO Electrode: An Attractive Laboratory Experience. Journal of Chemical Education, 1998, 75, 881.	2.3	40
111	Ohmic drop effect on the voltammetric behaviour of graphite + polyethylene composite electrodes. Journal of Electroanalytical Chemistry, 1997, 422, 91-97.	3.8	31
112	A numerical approach to the voltammograms of the reduction of Prussian Blue films on ITO electrodes. Electrochimica Acta, 1997, 42, 1473-1480.	5.2	41
113	Charge transport in prussian blue films deposited on ito electrodes. Electrochimica Acta, 1996, 41, 835-841.	5.2	47
114	Electrochemical study of Nafion membranes/Prussian blue films on ITO electrodes. Electrochimica Acta, 1996, 41, 2675-2682.	5.2	51
115	Impedance analysis of Prussian Blue films deposited on ITO electrodes. Electrochimica Acta, 1995, 40, 1113-1119.	5.2	76
116	Electrochemical reduction of the nitrite to ammonium ions in presence of [MoO2(O2CC(S)C6H5)2]2â^'. Electrochimica Acta, 1995, 40, 1121-1126.	5.2	19
117	Impedance analysis of graphite + polyethylene and graphite + epoxy composite electrodes. Journal of Electroanalytical Chemistry, 1995, 399, 115-120.	3.8	23
118	Voltammetric study of the stability of deposited Prussian blue films against succesive potential cycling. Electrochimica Acta, 1994, 39, 437-442.	5.2	68