JerÃ³nimo Agrisuelas

List of Publications by Year
in descending order

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73 papers	841 citations	516710 16 h-index	580821 25 g-index
74 all docs	74 docs citations	74 times ranked	723 citing authors

#	Article	IF	Citations
1	Highly activated screen-printed carbon electrodes by electrochemical treatment with hydrogen peroxide. Electrochemistry Communications, 2018, 91, 36-40.	4.7	65
2	Vis/NIR spectroelectrochemical analysis of poly-(Azure A) on ITO electrode. Electrochemistry Communications, 2006, 8, 549-553.	4.7	51
3	Hydrogen peroxide sensor based on in situ grown Pt nanoparticles from waste screen-printed electrodes. Sensors and Actuators B: Chemical, 2017, 249, 499-505.	7.8	44
4	Electrochemical performance of activated screen printed carbon electrodes for hydrogen peroxide and phenol derivatives sensing. Journal of Electroanalytical Chemistry, 2019, 839, 75-82.	3.8	41
5	Electromechanical Phase Transition in Hexacyanometallate Nanostructure (Prussian Blue). Journal of the American Chemical Society, 2007, 129, 7121-7126.	13.7	35
6	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
7	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
8	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
9	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
10	Electronic Perspective on the Electrochemistry of Prussian Blue Films. Journal of the Electrochemical Society, 2009, 156, P74.	2.9	24
11	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
12	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
13	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
14	Insights on the Mechanism of Insoluble-to-Soluble Prussian Blue Transformation. Journal of the Electrochemical Society, 2009, 156, P149.	2.9	19
15	Electrochemistry and electrocatalysis of a Pt@poly(neutral red) hybrid nanocomposite. Electrochimica Acta, 2015, 171, 165-175.	5.2	17
16	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
17	Identification of electroactive sites in Prussian Yellow films. Electrochimica Acta, 2013, 113, 825-833.	5.2	16
18	Quantification of electrochromic kinetics by analysis of RGB digital video images. Electrochemistry Communications, 2018, 93, 86-90.	4.7	15

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19	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
20	Influence of the Incorporation of CeO2 Nanoparticles on the Ion Exchange Behavior of Dodecylsulfate Doped Polypyrrole Films: Ac-Electrogravimetry Investigations. Electrochimica Acta, 2014, 145, 270-280.	5.2	14
21	Electrochemically induced free solvent transfer in thin poly(3,4-ethylenedioxythiophene) films. Electrochimica Acta, 2015, 164, 21-30.	5.2	14
22	Use of RGB digital video analysis to study electrochemical processes involving color changes. Electrochemistry Communications, 2017, 78, 38-42.	4.7	14
23	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
24	Recycling Metals from Spent Screen-Printed Electrodes While Learning the Fundamentals of Electrochemical Sensing. Journal of Chemical Education, 2018, 95, 847-851.	2.3	13
25	A Comparative Study of Poly(Azure A) Film-Modified Disposable Electrodes for Electrocatalytic Oxidation of H2O2: Effect of Doping Anion. Polymers, 2018, 10, 48.	4.5	13
26	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
27	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
28	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
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	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>< 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</m. Electrochimica Acta, 2016, 194, 292-303.	5.2	11
31	An electromechanical perspective on the metal/solution interfacial region during the metallic zinc electrodeposition. Electrochimica Acta, 2009, 54, 6046-6052.	5.2	10
32	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
33	Design and Characterization of Effective Ag, Pt and AgPt Nanoparticles to H2O2 Electrosensing from Scrapped Printed Electrodes. Sensors, 2019, 19, 1685.	3.8	10
34	Evidence of Magnetoresistance in the Prussian Blue Lattice during a Voltammetric Scan. Journal of Physical Chemistry C, 2008, 112, 20099-20104.	3.1	9
35	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
36	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

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37	Electrochemical Properties of Poly(Azure A) Films Synthesized in Sodium Dodecyl Sulfate Solution. Journal of the Electrochemical Society, 2017, 164, G1-G9.	2.9	9
38	Measurement of Total Antioxidant Capacity by Electrogenerated Iodine at Disposable Screen Printed Electrodes. Electroanalysis, 2017, 29, 1316-1323.	2.9	9
39	Spatiotemporal colorimetry to reveal electrochemical kinetics of poly(o-toluidine) films along ITO surface. Electrochimica Acta, 2018, 269, 350-358.	5.2	9
40	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
41	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
42	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
43	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
44	Kinetics of Surface Chemical Reactions from a Digital Video. Journal of Physical Chemistry C, 2020, 124, 2050-2059.	3.1	6
45	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
46	Electrochemical Stabilization of Prussian Blue Films in NH4Cl Aqueous Medium. ECS Transactions, 2011, 35, 53-61.	0.5	5
47	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
48	Ageing Effect on the Electrochemical Properties in Poly(Azure A) Films. Journal of the Electrochemical Society, 2017, 164, H593-H602.	2.9	4
49	Interfacial Role of Cesium in Prussian Blue Films. Journal of the Electrochemical Society, 2015, 162, H727-H733.	2.9	3
50	Poly(neutral red) on passivated nickel films. New insights through EQCM measurements. Russian Journal of Electrochemistry, 2016, 52, 1137-1149.	0.9	3
51	Alternating current electrogravimetry of copper electrodissolution in a sulfuric acid solution. Electrochimica Acta, 2017, 235, 374-383.	5.2	3
52	Electrochromic Performances of Poly(Azure A) Films from Digital Video-Electrochemistry (DVEC). Journal of the Electrochemical Society, 2020, 167, 106514.	2.9	3
53	Digital video-electrochemistry (DVEC) to assess electrochromic materials in the frequency domain: RGB colorimetry impedance spectroscopy. Electrochimica Acta, 2021, 366, 137340.	5.2	3
54	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

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55	Ionic Exchanges of Poly-(Azure A) Studied by AC-Electrogravimetry. ECS Transactions, 2011, 35, 43-51.	0.5	2
56	Characterization of a New Polypropylene+Graphite+Zinc Ternary Composite. ECS Transactions, 2013, 50, 71-80.	0.5	2
57	Electrocatalytic Reduction of Nitrite in Presence of Mo(VI)/Mo(IV) or Fe(III)/Fe(II) Redox Couples. ECS Transactions, 2007, 6, 19-26.	0.5	1
58	Composite Passive Layers of Ni(OH)2/Poly-(Neutral Red) on Nickel in a Weakly Acid Sulphate Medium Grown under Potentiodynamic Conditions. ECS Transactions, 2008, 6, 79-95.	0.5	1
59	Electrochromic Behavior of Prussian Yellow. ECS Transactions, 2013, 50, 435-447.	0.5	1
60	Spectroelectrogravimetry of the electrical conductivity activation in poly(o-toluidine) films. Journal of Solid State Electrochemistry, 2020, 24, 2353-2363.	2.5	1
61	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
62	Sobre la impedancia faradaica de la disoluciÃ³n electroquÃmica del nÃquel. Revista De Metalurgia, 2005, 41, 265-268.	0.5	1
63	Digital video electrochemistry (DVEC) applied to the study of Prussian Blue films. ChemElectroChem, 2022, 9, .	3.4	1
64	Usefulness of the Instantaneous Mass-charge Ratio for Elucidating the Ions Role in the Stabilization and Dissolution Processes in Prussian Blue Films. ECS Transactions, 2006, 2, 13-31.	0.5	0
65	Instantaneous Mass/Charge Ratio F(dm/dQ) of the Voltammetric Generation and Characterization of Poly-(Neutral Red) Conducting Films. ECS Transactions, 2006, 2, 11-18.	0.5	0
66	A Salt Layer Model for the Active Anodic Dissolution to Passive Transition of Nickel in Presence of Chloride. ECS Transactions, 2009, 16, 49-56.	0.5	0
67	About the Insoluble to the Soluble Prussian Blue Transformation. ECS Transactions, 2009, 16, 23-36.	0.5	0
68	An Electronic Perspective On The Electrochemical Changeover In Prussian Blue-Like Materials. ECS Transactions, 2009, 16, 151-162.	0.5	0
69	Voltammetric Characterization of Nickel Hydroxide Grown on Nickel/Epoxy Moldable Electrodes. ECS Transactions, 2017, 77, 837-846.	0.5	0
70	Interfacial Role of Cesium in Prussian Blue Films. ECS Transactions, 2017, 77, 1691-1697.	0.5	0
71	Phenformin Effect on the Anodic Dissolution of Nickel in Acid Media. ECS Transactions, 2017, 77, 823-830.	0.5	0
72	Hydrogen Ion Role on the Reduction of Poly-(Neutral Red). ECS Transactions, 2017, 77, 1929-1936.	0.5	0

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73	Corrosion and Electrochemical Properties of EVA+Zn Electrodes from a Percolation Theory Perspective. ECS Meeting Abstracts, 2021, MA2021-02, 1907-1907.	0.0	0