V Perez-Herranz

List of Publications by Year
in descending order

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80 papers	2,391 citations	218677 26 h-index	223800 46 g-index
80 all docs	80 docs citations	80 times ranked	2044 citing authors

#	Article	IF	Citations
1	Enhanced Atenolol oxidation by ferrites photoanodes grown on ceramic SnO2-Sb2O3 anodes. Journal of Alloys and Compounds, 2022, 908, 164629.	5.5	4
2	Antimony-doped tin dioxide ceramics used as standalone membrane electrodes in electrofiltration reactors enhance the oxidation of organic micropollutants. Journal of Cleaner Production, 2022, 363, 132342.	9.3	6
3	Tracking homogeneous reactions during electrodialysis of organic acids via EIS. Journal of Membrane Science, 2020, 595, 117592.	8.2	26
4	Analysis of norfloxacin ecotoxicity and the relation with its degradation by means of electrochemical oxidation using different anodes. Ecotoxicology and Environmental Safety, 2020, 188, 109923.	6.0	28
5	Chronopotentiometric study of the transport of phosphoric acid anions through an anion-exchange membrane under different pH values. Separation and Purification Technology, 2020, 238, 116421.	7.9	17
6	Achievements in electrodialysis processes for wastewater and water treatment. , 2020, , 127-160.		4
7	Effect of pore generator on microstructure and resistivity of Sb2O3 and CuO doped SnO2 electrodes. Journal of Porous Materials, 2020, 27, 1801-1808.	2.6	2
8	Comparison between an electrochemical reactor with and without membrane for the nor oxidation using novel ceramic electrodes. Journal of Environmental Management, 2020, 268, 110710.	7.8	9
9	Effect of the CuO addition on a Sb-doped SnO2 ceramic electrode applied to the removal of Norfloxacin in chloride media by electro-oxidation. Chemosphere, 2020, 249, 126178.	8.2	20
10	Influence of the reactor configuration and the supporting electrolyte concentration on the electrochemical oxidation of Atenolol using BDD and SnO2 ceramic electrodes. Separation and Purification Technology, 2020, 241, 116684.	7.9	37
11	Electrochemical degradation of norfloxacin using BDD and new Sb-doped SnO2 ceramic anodes in an electrochemical reactor in the presence and absence of a cation-exchange membrane. Separation and Purification Technology, 2019, 208, 68-75.	7.9	81
12	Algorithm for Assessing the Convergence of a Cyclic Voltammetry to Its Limit Cycle. Journal of the Electrochemical Society, 2019, 166, H224-H232.	2.9	0
13	Determination of Limiting Current Density, Plateau Length, and Ohmic Resistance of a Heterogeneous Membrane for the Treatment of Industrial Wastewaters with Copper Ions in Acid Media. Minerals, Metals and Materials Series, 2019, , 157-164.	0.4	0
14	Water reclamation and chemicals recovery from a novel cyanide-free copper plating bath using electrodialysis membrane process. Desalination, 2018, 436, 114-124.	8.2	28
15	Mechanistic equivalent circuit modelling of a commercial polymer electrolyte membrane fuel cell. Journal of Power Sources, 2018, 379, 328-337.	7.8	36
16	Statistical analysis of the effect of temperature and inlet humidities on the parameters of a semiempirical model of the internal resistance of a polymer electrolyte membrane fuel cell. Journal of Power Sources, 2018, 381, 84-93.	7.8	18
17	Modification of porous nickel electrodes with silver nanoparticles for hydrogen production. Journal of Electroanalytical Chemistry, 2018, 808, 420-426.	3.8	9
18	Theoretical Determination of the Stabilization Time in Galvanostatic EIS Measurements: The Simplified Randles Cell. Journal of the Electrochemical Society, 2018, 165, E628-E636.	2.9	4

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19	Optimization of the Perturbation Amplitude for EIS Measurements Using a Total Harmonic Distortion Based Method. Journal of the Electrochemical Society, 2018, 165, E488-E497.	2.9	14
20	Evaluation of the transport properties of copper ions through a heterogeneous ion-exchange membrane in etidronic acid solutions by chronopotentiometry. Journal of Membrane Science, 2017, 535, 268-278.	8.2	20
21	A review of cleaner production in electroplating industries using electrodialysis. Journal of Cleaner Production, 2017, 168, 1590-1602.	9.3	124
22	Experimental Quantification of the Effect of Nonlinearities on the EIS Spectra of the Cathodic Electrode of an Alkaline Electrolyzer. Fuel Cells, 2017, 17, 391-401.	2.4	7
23	pH effect on zinc recovery from the spent pickling baths of hot dip galvanizing industries. Separation and Purification Technology, 2017, 177, 21-28.	7.9	13
24	Harmonic Analysis Based Method for Perturbation Amplitude Optimization for EIS Measurements. Journal of the Electrochemical Society, 2017, 164, H918-H924.	2.9	12
25	Influence of the co-ions on the transport of sulfate through anion exchange membranes. Journal of Membrane Science, 2017, 542, 320-328.	8.2	15
26	Optimization of the Perturbation Amplitude for Impedance Measurements in a Commercial PEM Fuel Cell Using Total Harmonic Distortion. Fuel Cells, 2016, 16, 469-479.	2.4	20
27	Study of the catalytic activity of 3D macroporous Ni and NiMo cathodes for hydrogen production by alkaline water electrolysis. Journal of Applied Electrochemistry, 2016, 46, 791-803.	2.9	46
28	Harmonic analysis based method for linearity assessment and noise quantification in electrochemical impedance spectroscopy measurements: Theoretical formulation and experimental validation for Tafelian systems. Electrochimica Acta, 2016, 211, 1076-1091.	5.2	14
29	Application of a Montecarlo based quantitative Kramers-Kronig test for linearity assessment of EIS measurements. Electrochimica Acta, 2016, 209, 254-268.	5.2	27
30	Statistical Analysis of the Effect of the Temperature and Inlet Humidities on the Parameters of a PEMFC Model. Fuel Cells, 2015, 15, 479-493.	2.4	26
31	Ceramic anion-exchange membranes based on microporous supports infiltrated with hydrated zirconium dioxide. RSC Advances, 2015, 5, 46348-46358.	3.6	29
32	Total harmonic distortion based method for linearity assessment in electrochemical systems in the context of EIS. Electrochimica Acta, 2015, 186, 598-612.	5.2	49
33	Optimization of the electrochemical impedance spectroscopy measurement parameters for PEM fuel cell spectrum determination. Electrochimica Acta, 2015, 174, 1290-1298.	5.2	14
34	Role of starch characteristics in the properties of low-cost ceramic membranes. Journal of the European Ceramic Society, 2015, 35, 2333-2341.	5.7	34
35	Montecarlo based quantitative Kramersâ€“Kronig test for PEMFC impedance spectrum validation. International Journal of Hydrogen Energy, 2015, 40, 11279-11293.	7.1	24
36	Ion transport through homogeneous and heterogeneous ion-exchange membranes in single salt and multicomponent electrolyte solutions. Journal of Membrane Science, 2014, 466, 45-57.	8.2	102

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37	Study of the zinc recovery from spent pickling baths by means of an electrochemical membrane reactor using a cation-exchange membrane under galvanostatic control. Separation and Purification Technology, 2014, 132, 479-486.	7.9	17
38	Hydrogen crossover and internal short-circuit currents experimental characterization and modelling in a proton exchange membrane fuel cell. International Journal of Hydrogen Energy, 2014, 39, 13206-13216.	7.1	35
39	Sulfuric acid recovery from acid mine drainage by means of electrodialysis. Desalination, 2014, 343, 120-127.	8.2	105
40	Study of the electrochemical behaviour of a 300ÂW PEM fuel cell stack by Electrochemical Impedance Spectroscopy. International Journal of Hydrogen Energy, 2014, 39, 4009-4015.	7.1	38
41	Treatment of spent pickling baths coming from hot dip galvanizing by means of an electrochemical membrane reactor. Desalination, 2014, 343, 38-47.	8.2	9
42	Co-modification of Ni-based type Raney electrodeposits for hydrogenÂevolution reaction in alkaline media. Journal of Power Sources, 2013, 240, 698-704.	7.8	53
43	Synthesis and characterization of macroporous Ni, Co and Niâ€“Co electrocatalytic deposits for hydrogen evolution reaction in alkaline media. International Journal of Hydrogen Energy, 2013, 38, 10157-10169.	7.1	128
44	Chronopotentiometric study of ceramic cation-exchange membranes based on zirconium phosphate in contact with nickel sulfate solutions. Desalination and Water Treatment, 2013, 51, 597-605.	1.0	3
45	Synthesis and electrochemical behavior of ceramic cation-exchange membranes based on zirconium phosphate. Ceramics International, 2013, 39, 4045-4054.	4.8	14
46	Effect of the equilibria of multivalent metal sulfates on the transport through cation-exchange membranes at different current regimes. Journal of Membrane Science, 2013, 443, 181-192.	8.2	44
47	Low-cost inorganic cation exchange membrane for electrodialysis: optimum processing temperature for the cation exchanger. Desalination and Water Treatment, 2013, 51, 3317-3324.	1.0	3
48	Recovery of zinc from spent pickling solutions using an electrochemical reactor in presence and absence of an anion-exchange membrane: Galvanostatic operation. Separation and Purification Technology, 2012, 98, 366-374.	7.9	18
49	Double-template fabrication of three-dimensional porous nickel electrodes for hydrogen evolution reaction. International Journal of Hydrogen Energy, 2012, 37, 2147-2156.	7.1	117
50	Study of the effects of the applied current regime and the concentration of chromic acid on the transport of Ni2+ ions through Nafion 117 membranes. Journal of Membrane Science, 2012, 392-393, 137-149.	8.2	27
51	Electrochemical recovery of zinc from the spent pickling baths coming from the hot dip galvanizing industry. Potentiostatic operation. Separation and Purification Technology, 2011, 81, 200-207.	7.9	19
52	Assessment of the roughness factor effect and the intrinsic catalytic activity for hydrogen evolution reaction on Ni-based electrodeposits. International Journal of Hydrogen Energy, 2011, 36, 9428-9438.	7.1	146
53	Electrochemical characterization of a NiCo/Zn cathode for hydrogen generation. International Journal of Hydrogen Energy, 2011, 36, 11578-11587.	7.1	70
54	Impedance study of hydrogen evolution on Ni/Zn and Niâ€“Co/Zn stainless steel based electrodeposits. Electrochimica Acta, 2011, 56, 1308-1315.	5.2	138

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55	Evaluation of two ion-exchange membranes for the transport of tin in the presence of hydrochloric acid. Journal of Membrane Science, 2011, 371, 65-74.	8.2	22
56	Determination of transport properties of Ni(II) through a Nafion cation-exchange membrane in chromic acid solutions. Journal of Membrane Science, 2011, 379, 449-458.	8.2	45
57	Evaluation of the Zn2+ transport properties through a cation-exchange membrane by chronopotentiometry. Journal of Colloid and Interface Science, 2010, 341, 380-385.	9.4	22
58	Effect of hydrochloric acid on the transport properties of tin through ion-exchange membranes. Desalination and Water Treatment, 2009, 10, 73-79.	1.0	3
59	Use of ion-exchange membranes for the removal of tin from spent activating solutions. Desalination and Water Treatment, 2009, 3, 150-156.	1.0	3
60	Pourbaix diagrams for chromium in concentrated aqueous lithium bromide solutions at 25Â°C. Corrosion Science, 2009, 51, 807-819.	6.6	26
61	The influence of Reynolds number on the galvanic corrosion of the copper/AISI 304 pair in aqueous LiBr solutions. Corrosion Science, 2009, 51, 2733-2742.	6.6	20
62	Effect of tin concentration on the electrical properties of ceramic membranes used as separators in electrochemical reactors. Journal of Membrane Science, 2008, 323, 213-220.	8.2	9
63	Electrochemical study of the activating solution for electroless plating of polymers. Journal of Applied Electrochemistry, 2007, 37, 1145-1152.	2.9	12
64	Evolution with Exposure Time of Copper Corrosion in a Concentrated Lithium Bromide Solution. Characterization of Corrosion Products by Energy-Dispersive X-Ray Analysis and X-Ray Diffraction. Corrosion, 2006, 62, 64-73.	1.1	12
65	Corrosion of Copper in Aqueous Lithium Bromide Concentrated Solutions by Immersion Testing. Corrosion, 2006, 62, 1018-1027.	1.1	23
66	Membrane electrochemical reactor for continuous regeneration of spent chromium plating baths. Desalination, 2006, 200, 668-670.	8.2	6
67	Effect of porosity on the effective electrical conductivity of different ceramic membranes used as separators in eletrochemical reactors. Journal of Membrane Science, 2006, 280, 536-544.	8.2	33
68	Anodic Polarization Behavior of Copper in Concentrated Aqueous Lithium Bromide Solutions and Comparison with Pourbaix Diagrams. Corrosion, 2005, 61, 464-472.	1.1	13
69	Electrochemical recovery of tin and palladium from the activating solutions of the electroless plating of polymers. Separation and Purification Technology, 2005, 45, 183-191.	7.9	28
70	SÃntesis de membranas cerÃ¡micas para la regeneraciÃ³n de baÃ±os de cromado agotados. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2005, 44, 409-414.	1.9	6
71	Ceramic Membranes for Continuous Regeneration of Spent Chromium Plating Baths. Key Engineering Materials, 2004, 264-268, 2211-2214.	0.4	5
72	Effect of citric acid and hydrochloric acid on the polarographic behaviour of tin. Analytica Chimica Acta, 2003, 484, 243-251.	5.4	13

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73	Online Visualization of Corrosion Processes of Zinc and a Cu/Zn Galvanic Pair in Lithium Bromide Solutions. Corrosion, 2003, 59, 172-180.	1.1	25
74	Effect of Fluid Velocity and Exposure Time on Copper Corrosion in a Concentrated Lithium Bromide Solution. Corrosion, 2001, 57, 835-842.	1.1	13
75	Title is missing!. Journal of Applied Electrochemistry, 2001, 31, 1195-1202.	2.9	25
76	Analysis of mass and momentum transfer in an annular electrodialysis cell in pulsed flow. Chemical Engineering Science, 1999, 54, 1667-1675.	3.8	21
77	Velocity profiles and limiting current in an annular electrodialysis cell in pulsed flow. Chemical Engineering Science, 1997, 52, 843-851.	3.8	9
78	Enhancement of mass transfer at a spherical electrode in pulsating flow. Journal of Applied Electrochemistry, 1995, 25, 267.	2.9	11
79	Corrosion of Carbon Steels, Stainless Steels, and Titanium in Aqueous Lithium Bromide Solution. Corrosion, 1994, 50, 240-246.	1.1	61
80	Use of Differential Pulse Polarography to Study Corrosion of Galvanized Steel in Aqueous Lithium Bromide Solution. Corrosion, 1994, 50, 91-97.	1.1	22