

V Perez-Herranz

List of Publications by Year in descending order

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Version: 2024-02-01

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	Assessment of the roughness factor effect and the intrinsic catalytic activity for hydrogen evolution reaction on Ni-based electrodeposits. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 9428-9438.	7.1	146
2	Impedance study of hydrogen evolution on Ni/Zn and Ni-Co/Zn stainless steel based electrodeposits. <i>Electrochimica Acta</i> , 2011, 56, 1308-1315.	5.2	138
3	Synthesis and characterization of macroporous Ni, Co and Ni-Co electrocatalytic deposits for hydrogen evolution reaction in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 10157-10169.	7.1	128
4	A review of cleaner production in electroplating industries using electrodialysis. <i>Journal of Cleaner Production</i> , 2017, 168, 1590-1602.	9.3	124
5	Double-template fabrication of three-dimensional porous nickel electrodes for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 2147-2156.	7.1	117
6	Sulfuric acid recovery from acid mine drainage by means of electrodialysis. <i>Desalination</i> , 2014, 343, 120-127.	8.2	105
7	Ion transport through homogeneous and heterogeneous ion-exchange membranes in single salt and multicomponent electrolyte solutions. <i>Journal of Membrane Science</i> , 2014, 466, 45-57.	8.2	102
8	Electrochemical degradation of norfloxacin using BDD and new Sb-doped SnO ₂ ceramic anodes in an electrochemical reactor in the presence and absence of a cation-exchange membrane. <i>Separation and Purification Technology</i> , 2019, 208, 68-75.	7.9	81
9	Electrochemical characterization of a NiCo/Zn cathode for hydrogen generation. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 11578-11587.	7.1	70
10	Corrosion of Carbon Steels, Stainless Steels, and Titanium in Aqueous Lithium Bromide Solution. <i>Corrosion</i> , 1994, 50, 240-246.	1.1	61
11	Co-modification of Ni-based type Raney electrodeposits for hydrogen evolution reaction in alkaline media. <i>Journal of Power Sources</i> , 2013, 240, 698-704.	7.8	53
12	Total harmonic distortion based method for linearity assessment in electrochemical systems in the context of EIS. <i>Electrochimica Acta</i> , 2015, 186, 598-612.	5.2	49
13	Study of the catalytic activity of 3D macroporous Ni and NiMo cathodes for hydrogen production by alkaline water electrolysis. <i>Journal of Applied Electrochemistry</i> , 2016, 46, 791-803.	2.9	46
14	Determination of transport properties of Ni(II) through a Nafion cation-exchange membrane in chromic acid solutions. <i>Journal of Membrane Science</i> , 2011, 379, 449-458.	8.2	45
15	Effect of the equilibria of multivalent metal sulfates on the transport through cation-exchange membranes at different current regimes. <i>Journal of Membrane Science</i> , 2013, 443, 181-192.	8.2	44
16	Study of the electrochemical behaviour of a 300 W PEM fuel cell stack by Electrochemical Impedance Spectroscopy. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4009-4015.	7.1	38
17	Influence of the reactor configuration and the supporting electrolyte concentration on the electrochemical oxidation of Atenolol using BDD and SnO ₂ ceramic electrodes. <i>Separation and Purification Technology</i> , 2020, 241, 116684.	7.9	37
18	Mechanistic equivalent circuit modelling of a commercial polymer electrolyte membrane fuel cell. <i>Journal of Power Sources</i> , 2018, 379, 328-337.	7.8	36

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19	Hydrogen crossover and internal short-circuit currents experimental characterization and modelling in a proton exchange membrane fuel cell. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 13206-13216.	7.1	35
20	Role of starch characteristics in the properties of low-cost ceramic membranes. <i>Journal of the European Ceramic Society</i> , 2015, 35, 2333-2341.	5.7	34
21	Effect of porosity on the effective electrical conductivity of different ceramic membranes used as separators in electrochemical reactors. <i>Journal of Membrane Science</i> , 2006, 280, 536-544.	8.2	33
22	Ceramic anion-exchange membranes based on microporous supports infiltrated with hydrated zirconium dioxide. <i>RSC Advances</i> , 2015, 5, 46348-46358.	3.6	29
23	Electrochemical recovery of tin and palladium from the activating solutions of the electroless plating of polymers. <i>Separation and Purification Technology</i> , 2005, 45, 183-191.	7.9	28
24	Water reclamation and chemicals recovery from a novel cyanide-free copper plating bath using electro dialysis membrane process. <i>Desalination</i> , 2018, 436, 114-124.	8.2	28
25	Analysis of norfloxacin ecotoxicity and the relation with its degradation by means of electrochemical oxidation using different anodes. <i>Ecotoxicology and Environmental Safety</i> , 2020, 188, 109923.	6.0	28
26	Study of the effects of the applied current regime and the concentration of chromic acid on the transport of Ni ²⁺ ions through Nafion 117 membranes. <i>Journal of Membrane Science</i> , 2012, 392-393, 137-149.	8.2	27
27	Application of a Montecarlo based quantitative Kramers-Kronig test for linearity assessment of EIS measurements. <i>Electrochimica Acta</i> , 2016, 209, 254-268.	5.2	27
28	Pourbaix diagrams for chromium in concentrated aqueous lithium bromide solutions at 25°C. <i>Corrosion Science</i> , 2009, 51, 807-819.	6.6	26
29	Statistical Analysis of the Effect of the Temperature and Inlet Humidities on the Parameters of a PEMFC Model. <i>Fuel Cells</i> , 2015, 15, 479-493.	2.4	26
30	Tracking homogeneous reactions during electro dialysis of organic acids via EIS. <i>Journal of Membrane Science</i> , 2020, 595, 117592.	8.2	26
31	Title is missing!. <i>Journal of Applied Electrochemistry</i> , 2001, 31, 1195-1202.	2.9	25
32	Online Visualization of Corrosion Processes of Zinc and a Cu/Zn Galvanic Pair in Lithium Bromide Solutions. <i>Corrosion</i> , 2003, 59, 172-180.	1.1	25
33	Montecarlo based quantitative Kramers-Kronig test for PEMFC impedance spectrum validation. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 11279-11293.	7.1	24
34	Corrosion of Copper in Aqueous Lithium Bromide Concentrated Solutions by Immersion Testing. <i>Corrosion</i> , 2006, 62, 1018-1027.	1.1	23
35	Use of Differential Pulse Polarography to Study Corrosion of Galvanized Steel in Aqueous Lithium Bromide Solution. <i>Corrosion</i> , 1994, 50, 91-97.	1.1	22
36	Evaluation of the Zn ²⁺ transport properties through a cation-exchange membrane by chronopotentiometry. <i>Journal of Colloid and Interface Science</i> , 2010, 341, 380-385.	9.4	22

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37	Evaluation of two ion-exchange membranes for the transport of tin in the presence of hydrochloric acid. <i>Journal of Membrane Science</i> , 2011, 371, 65-74.	8.2	22
38	Analysis of mass and momentum transfer in an annular electrodialysis cell in pulsed flow. <i>Chemical Engineering Science</i> , 1999, 54, 1667-1675.	3.8	21
39	The influence of Reynolds number on the galvanic corrosion of the copper/AISI 304 pair in aqueous LiBr solutions. <i>Corrosion Science</i> , 2009, 51, 2733-2742.	6.6	20
40	Optimization of the Perturbation Amplitude for Impedance Measurements in a Commercial PEM Fuel Cell Using Total Harmonic Distortion. <i>Fuel Cells</i> , 2016, 16, 469-479.	2.4	20
41	Evaluation of the transport properties of copper ions through a heterogeneous ion-exchange membrane in etidronic acid solutions by chronopotentiometry. <i>Journal of Membrane Science</i> , 2017, 535, 268-278.	8.2	20
42	Effect of the CuO addition on a Sb-doped SnO ₂ ceramic electrode applied to the removal of Norfloxacin in chloride media by electro-oxidation. <i>Chemosphere</i> , 2020, 249, 126178.	8.2	20
43	Electrochemical recovery of zinc from the spent pickling baths coming from the hot dip galvanizing industry. Potentiostatic operation. <i>Separation and Purification Technology</i> , 2011, 81, 200-207.	7.9	19
44	Recovery of zinc from spent pickling solutions using an electrochemical reactor in presence and absence of an anion-exchange membrane: Galvanostatic operation. <i>Separation and Purification Technology</i> , 2012, 98, 366-374.	7.9	18
45	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. <i>Journal of Power Sources</i> , 2018, 381, 84-93.	7.8	18
46	Study of the zinc recovery from spent pickling baths by means of an electrochemical membrane reactor using a cation-exchange membrane under galvanostatic control. <i>Separation and Purification Technology</i> , 2014, 132, 479-486.	7.9	17
47	Chronopotentiometric study of the transport of phosphoric acid anions through an anion-exchange membrane under different pH values. <i>Separation and Purification Technology</i> , 2020, 238, 116421.	7.9	17
48	Influence of the co-ions on the transport of sulfate through anion exchange membranes. <i>Journal of Membrane Science</i> , 2017, 542, 320-328.	8.2	15
49	Synthesis and electrochemical behavior of ceramic cation-exchange membranes based on zirconium phosphate. <i>Ceramics International</i> , 2013, 39, 4045-4054.	4.8	14
50	Optimization of the electrochemical impedance spectroscopy measurement parameters for PEM fuel cell spectrum determination. <i>Electrochimica Acta</i> , 2015, 174, 1290-1298.	5.2	14
51	Harmonic analysis based method for linearity assessment and noise quantification in electrochemical impedance spectroscopy measurements: Theoretical formulation and experimental validation for Tafelian systems. <i>Electrochimica Acta</i> , 2016, 211, 1076-1091.	5.2	14
52	Optimization of the Perturbation Amplitude for EIS Measurements Using a Total Harmonic Distortion Based Method. <i>Journal of the Electrochemical Society</i> , 2018, 165, E488-E497.	2.9	14
53	Effect of Fluid Velocity and Exposure Time on Copper Corrosion in a Concentrated Lithium Bromide Solution. <i>Corrosion</i> , 2001, 57, 835-842.	1.1	13
54	Effect of citric acid and hydrochloric acid on the polarographic behaviour of tin. <i>Analytica Chimica Acta</i> , 2003, 484, 243-251.	5.4	13

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55	Anodic Polarization Behavior of Copper in Concentrated Aqueous Lithium Bromide Solutions and Comparison with Pourbaix Diagrams. <i>Corrosion</i> , 2005, 61, 464-472.	1.1	13
56	pH effect on zinc recovery from the spent pickling baths of hot dip galvanizing industries. <i>Separation and Purification Technology</i> , 2017, 177, 21-28.	7.9	13
57	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. <i>Corrosion</i> , 2006, 62, 64-73.	1.1	12
58	Electrochemical study of the activating solution for electroless plating of polymers. <i>Journal of Applied Electrochemistry</i> , 2007, 37, 1145-1152.	2.9	12
59	Harmonic Analysis Based Method for Perturbation Amplitude Optimization for EIS Measurements. <i>Journal of the Electrochemical Society</i> , 2017, 164, H918-H924.	2.9	12
60	Enhancement of mass transfer at a spherical electrode in pulsating flow. <i>Journal of Applied Electrochemistry</i> , 1995, 25, 267.	2.9	11
61	Velocity profiles and limiting current in an annular electro dialysis cell in pulsed flow. <i>Chemical Engineering Science</i> , 1997, 52, 843-851.	3.8	9
62	Effect of tin concentration on the electrical properties of ceramic membranes used as separators in electrochemical reactors. <i>Journal of Membrane Science</i> , 2008, 323, 213-220.	8.2	9
63	Treatment of spent pickling baths coming from hot dip galvanizing by means of an electrochemical membrane reactor. <i>Desalination</i> , 2014, 343, 38-47.	8.2	9
64	Modification of porous nickel electrodes with silver nanoparticles for hydrogen production. <i>Journal of Electroanalytical Chemistry</i> , 2018, 808, 420-426.	3.8	9
65	Comparison between an electrochemical reactor with and without membrane for the nor oxidation using novel ceramic electrodes. <i>Journal of Environmental Management</i> , 2020, 268, 110710.	7.8	9
66	Experimental Quantification of the Effect of Nonlinearities on the EIS Spectra of the Cathodic Electrode of an Alkaline Electrolyzer. <i>Fuel Cells</i> , 2017, 17, 391-401.	2.4	7
67	Membrane electrochemical reactor for continuous regeneration of spent chromium plating baths. <i>Desalination</i> , 2006, 200, 668-670.	8.2	6
68	S�ntesis de membranas cer�micas para la regeneraci�n de ba�os de cromado agotados. <i>Boletín De La Sociedad Espanola De Cerámica Y Vidrio</i> , 2005, 44, 409-414.	1.9	6
69	Antimony-doped tin dioxide ceramics used as standalone membrane electrodes in electrofiltration reactors enhance the oxidation of organic micropollutants. <i>Journal of Cleaner Production</i> , 2022, 363, 132342.	9.3	6
70	Ceramic Membranes for Continuous Regeneration of Spent Chromium Plating Baths. <i>Key Engineering Materials</i> , 2004, 264-268, 2211-2214.	0.4	5
71	Theoretical Determination of the Stabilization Time in Galvanostatic EIS Measurements: The Simplified Randles Cell. <i>Journal of the Electrochemical Society</i> , 2018, 165, E628-E636.	2.9	4
72	Achievements in electro dialysis processes for wastewater and water treatment. , 2020, , 127-160.		4

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73	Enhanced Atenolol oxidation by ferrites photoanodes grown on ceramic SnO ₂ -Sb ₂ O ₃ anodes. Journal of Alloys and Compounds, 2022, 908, 164629.	5.5	4
74	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
75	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
76	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
77	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
78	Effect of pore generator on microstructure and resistivity of Sb ₂ O ₃ and CuO doped SnO ₂ electrodes. Journal of Porous Materials, 2020, 27, 1801-1808.	2.6	2
79	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
80	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