

JosÃ© L FernÃ¡ndez

List of Publications by Year in descending order

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36
papers

1,514
citations

567281

15
h-index

345221

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37
all docs

37
docs citations

37
times ranked

1792
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermodynamic Guidelines for the Design of Bimetallic Catalysts for Oxygen Electroreduction and Rapid Screening by Scanning Electrochemical Microscopy. M ² Co (M: Pd, Ag, Au). Journal of the American Chemical Society, 2005, 127, 357-365.	13.7	587
2	Influence of the solvent in the synthesis of zeolitic imidazolate framework-8 (ZIF-8) nanocrystals at room temperature. Journal of Colloid and Interface Science, 2014, 424, 37-43.	9.4	216
3	Scanning Electrochemical Microscopy. 47. Imaging Electrocatalytic Activity for Oxygen Reduction in an Acidic Medium by the Tip Generation~Substrate Collection Mode. Analytical Chemistry, 2003, 75, 2967-2974.	6.5	124
4	Characterization and Theory of Electrocatalysts Based on Scanning Electrochemical Microscopy Screening Methods. Langmuir, 2006, 22, 10426-10431.	3.5	74
5	Optimization Of ~Wired~Enzyme O ₂ -Electroreduction Catalyst Compositions by Scanning Electrochemical Microscopy. Angewandte Chemie - International Edition, 2004, 43, 6355-6357.	13.8	62
6	Scanning Electrochemical Microscopy. 55. Fabrication and Characterization of Micropipet Probes. Analytical Chemistry, 2005, 77, 5182-5188.	6.5	47
7	Scanning Electrochemical Microscopy. 57. SECM Tip Voltammetry at Different Substrate Potentials under Quasi-Steady-State and Steady-State Conditions. Analytical Chemistry, 2007, 79, 4957-4966.	6.5	45
8	Scanning Electrochemical Microscopy 50. Kinetic Study of Electrode Reactions by the Tip Generation~Substrate Collection Mode. Analytical Chemistry, 2004, 76, 2281-2289.	6.5	44
9	Kinetic analysis of the hydrogen electrode reaction in unbuffered media. Theory and studies on Pt microelectrodes. Electrochimica Acta, 2013, 107, 248-260.	5.2	28
10	Kinetic Study of the Hydrogen Oxidation Reaction on Nanostructured Iridium Electrodes in Acid Solutions. Journal of Physical Chemistry C, 2013, 117, 25269-25275.	3.1	28
11	Scanning Electrochemical Microscopy #54. Application To The Study Of Heterogeneous Catalytic Reactions Hydrogen Peroxide Decomposition. Journal of Physical Chemistry B, 2005, 109, 9532-9539.	2.6	27
12	Theory and Experiments for Voltammetric and SECM Investigations and Application to ORR Electrocatalysis at Nanoelectrode Ensembles of Ultramicroelectrode Dimensions. Analytical Chemistry, 2015, 87, 1066-1074.	6.5	26
13	Characterization and kinetic study of a nanostructured rhodium electrode for the hydrogen oxidation reaction. Journal of Power Sources, 2014, 254, 218-223.	7.8	20
14	Evaluation of the kinetic parameters of the hydrogen electrode reaction from the analysis of the equilibrium polarisation resistance. Physical Chemistry Chemical Physics, 2003, 5, 2875-2880.	2.8	15
15	Carbon Supported Noble Metal (Pd and Au) Catalysts Synthesized by an Oxide Route with High Performance for Oxygen Reduction in Acidic Media. Electrochimica Acta, 2015, 180, 460-470.	5.2	15
16	Microreactor with silver-loaded metal-organic framework films for gas-phase reactions. Chemical Engineering Journal, 2017, 313, 1468-1476.	12.7	14
17	An efficient method for fabrication of disk-shaped scanning electrochemical microscopy probes with small glass-sheath thicknesses. Journal of Electroanalytical Chemistry, 2010, 650, 75-81.	3.8	12
18	Evaluation of the intrinsic kinetic activity of nanoparticle ensembles under steady-state conditions. Journal of Electroanalytical Chemistry, 2011, 651, 80-93.	3.8	12

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19	Post-synthetic Modification of ZIF-8 Crystals and Films through UV Light Photoirradiation: Impact on the Physicochemical Behavior of the MOF. <i>ChemPhysChem</i> , 2019, 20, 3201-3209.	2.1	12
20	Analysis of the hydrogen electrode reaction mechanism in thin-layer cells. 2. Study of hydrogen evolution on microelectrodes by scanning electrochemical microscopy. <i>Journal of Electroanalytical Chemistry</i> , 2014, 713, 9-16.	3.8	11
21	Voltammetric and Scanning Electrochemical Microscopy Investigations of the Hydrogen Evolution Reaction in Acid at Nanostructured Ensembles of Ultramicroelectrode Dimensions: Theory and Experiment. <i>Journal of Physical Chemistry C</i> , 2018, 122, 71-82.	3.1	11
22	Analysis of the hydrogen electrode reaction mechanism in thin-layer cells. 1. Theory. <i>Journal of Electroanalytical Chemistry</i> , 2010, 650, 90-97.	3.8	10
23	Optimization Of "Wired"-Enzyme O ₂ -Electroreduction Catalyst Compositions by Scanning Electrochemical Microscopy. <i>Angewandte Chemie</i> , 2004, 116, 6515-6517.	2.0	9
24	Electrocatalysis of oxygen reduction at electrodeposited molybdenum phosphate-based films. <i>Journal of Power Sources</i> , 2012, 203, 57-64.	7.8	9
25	Sensing electroadsorption reactions and surface mobility of electroadsorbed species by scanning electrochemical induced desorption. <i>Journal of Electroanalytical Chemistry</i> , 2016, 775, 64-71.	3.8	8
26	Analysis of the hydrogen electrode reaction mechanism in thin-layer cells. 3. Study of hydrogen electro-oxidation by scanning electrochemical microscopy. <i>Journal of Electroanalytical Chemistry</i> , 2017, 784, 33-40.	3.8	8
27	Understanding the Role of Protic Ionic Liquids (PILs) in Reactive Systems: Rational Selection of PILs for the Design of Green Synthesis Strategies for Allylic Amines and "Amino Esters. <i>ChemPlusChem</i> , 2019, 84, 919-926.	2.8	8
28	Fabrication, characterization and application of graphite ring ultramicroelectrodes for kinetic studies of fuel cell reactions under high mass-transport rates. <i>Journal of Electroanalytical Chemistry</i> , 2010, 642, 41-51.	3.8	7
29	An integrated experimental-theoretical approach to understand the electron transfer mechanism of adsorbed ferrocene-terminated alkanethiol monolayers. <i>Electrochimica Acta</i> , 2018, 265, 303-315.	5.2	5
30	Insights on the catalytic behaviour of sulfonic acid-functionalized ionic liquids (ILs) in transesterification reactions " voltammetric characterization of sulfonic task-specific ILs with bisulfate anions. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 2731-2741.	2.8	4
31	Compact and efficient gas diffusion electrodes based on nanoporous alumina membranes for microfuel cells and gas sensors. <i>Analyst</i> , The, 2020, 145, 122-131.	3.5	4
32	Nanoparticle ensemble electrodes: fabrication by short-pulse sputtering and characterization by scanning probe microscopy and voltammetry. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 2233-2243.	2.5	3
33	Oxygen reduction to water operating through the Direct (or Dissociative) Route: Descriptive and fitting capabilities of polarization curves. <i>Electrochimica Acta</i> , 2015, 182, 953-962.	5.2	3
34	Ordered Array Electrodes Fabricated by a Mask-Assisted Electron-Beam Method as Platforms for Studying Kinetic and Mass-Transport Phenomena on Electrocatalysts. <i>ChemElectroChem</i> , 2018, 5, 2620-2629.	3.4	3
35	Strategies for fabrication of highly-dense ordered arrays of metal microdisks by the scanning electrochemical microscopy microwriting approach. <i>Sensors and Actuators B: Chemical</i> , 2017, 250, 420-428.	7.8	2
36	Significant effects of the anion on the catalytic behaviour of sulfonic acid-functionalized ionic liquids in transesterification reactions " A combined electrochemical/catalytic study. <i>Molecular Catalysis</i> , 2021, 513, 111821.	2.0	1