

**2011 - ACL-182**

Surface Reactivity from Electrochemical Lithography: Illustration in the Steady-State Reductive Etching of Perfluorinated Surfaces

Hassan Hazimeh, Sandra Nunige, Renaud Cornut, [Christine Lefrou](#), Catherine Combellas et Frédéric Kanoufi

*Analytical Chemistry*, **83**(15), (2011), pp. 6106 -6113 [\[DOI : 10.1021/ac201255c\]](#)

**2011 - ACL-183**

Accurate and Simplified Consideration of the Probe Geometrical Defaults in Scanning Electrochemical Microscopy: Theoretical and Experimental Investigations

Renaud Cornut, Amit Bhasin, Sébastien Lhenry, Mathieu Etienne et [Christine Lefrou](#)

*Analytical Chemistry*, **83**(24), (2011), pp. 9669 -9675 [\[DOI : 10.1021/ac2026018\]](#)

**2011 - ACL-184**

Quantification of MgO surface excess on the SnO<sub>2</sub> nanoparticles and relationship with nanostability and growth

Douglas Gouvea, Gilberto Pereira, Léon Gengembre, [Marlu César Steil](#), Pascal Roussel, Annick Rubbens, Pilar Hidalgo et Ricardo Castro

*Applied Surface Science*, **257**(9), (2011), pp. 4219 -4226 [\[DOI : 10.1016/j.apsusc.2010.12.023\]](#)

**2011 - ACL-185**

Reinforcing Mechanisms of Starch Nanocrystals in a Nonvulcanized Natural Rubber Matrix

[Patrice Mélé](#), Hélène Angellier-Coussy, Sonia Molina-Boisseau et Alain Dufresne

*Biomacromolecules*, **12**(5), (2011), pp. 1487 -1493 [\[DOI : 10.1021/bm101443a\]](#)

**2011 - ACL-186**

Enhancement of Mass Transfer Characteristics and Phenanthrene Degradation in a Two-phase Partitioning Bioreactor Equipped with Internal Static Mixers

[Abdelhay Arwa](#), [Stéphane Baup](#), [Nicolas Gondrexon](#), [Jean-Pierre Magnin](#) et John Willison

*Biotechnology and Bioprocess Engineering*, **16**(2), (2011), pp. 413 -418 [\[DOI : 10.1007/s12257-010-0002-6\]](#)

**2011 - ACL-187**

Mass transport effects in the borohydride oxidation reaction-Influence of the residence time on the reaction onset and faradaic efficiency

Kenia Freitas, [Maria Molina Concha](#), Edson Ticianelli et [Marian Chatenet](#)

*Catalysis Today*, **170**(1), (2011), pp. 110 -119 [\[DOI : 10.1016/j.cattod.2011.01.051\]](#)

**2011 - ACL-188**

Poly(oxyethylene) and ramie whiskers based nanocomposites: influence of processing: extrusion and casting/evaporation

[Fannie Alloin](#), Alessandra D'Apria, Alain Dufresne, Nadia El Kissi et Frédéric Bossard

*Cellulose*, **18**(4), (2011), pp. 957 -973 [\[DOI : 10.1007/s10570-011-9543-x\]](#)

**2011 - ACL-189**

Microstructural 3D Reconstruction and Performance Evaluation of LSCF Cathodes Obtained by Electrostatic Spray Deposition

Daniel Marinha, Laurent Dessemond, J. Cronin, James Wilson, Scott Barnett et Elisabeth Djurado

*Chemistry of Materials*, **23**(24), (2011), pp. 5340 -5348 [\[DOI : 10.1021/cm2016998\]](https://doi.org/10.1021/cm2016998)

**2011 - ACL-190**

Sulfonic and Phosphonic Acid and Bifunctional Organic-Inorganic Hybrid Membranes and Their Proton Conduction Properties

Ozlem Sel, Thierry Azais, Manuel Maréchal, Gérard Gebel, Christel Laberty-Robert et Clément Sanchez

*Chemistry-An Asian Journal*, **6**(11), (2011), pp. 2992-3000 [\[DOI : 10.1002/asia.201100220\]](https://doi.org/10.1002/asia.201100220)

**2011 - ACL-191**

Towards the modelling and control of NOx emission in a fluidized bed sludge combustor

S. Li, Catherine Cadet, Pierre-Xavier Thivel et Françoise Delpech

*Computers & Chemical Engineering*, **35**(7), (2011), pp. 1281 -1294 [\[DOI : 10.1016/j.compchemeng.2010.07.015\]](https://doi.org/10.1016/j.compchemeng.2010.07.015)

**2011 - ACL-192**

An EC-FTIR study on the catalytic role of Pt in carbon corrosion

Frédéric Maillard, Antoine Bonnefont et Fabrice Micoud

*Electrochemistry Communications*, **13**(10), (2011), pp. 1109 -1111 [\[DOI : 10.1016/j.elecom.2011.07.011\]](https://doi.org/10.1016/j.elecom.2011.07.011)

**2011 - ACL-193**

First results on PEMFC diagnosis by electrochemical noise

Benoît Legros, Pierre-Xavier Thivel, Yann Bultel et Ricardo Nogueira

*Electrochemistry Communications*, **13**(12), (2011), pp. 1514 -1516 [\[DOI : 10.1016/j.elecom.2011.10.007\]](https://doi.org/10.1016/j.elecom.2011.10.007)

**2011 - ACL-194**

Electrodeposition and characterization of manganese-bismuth system from chloride based acidic bath

Baya Benfedda, Nassima Benbrahim, Abdelaziz Kadri, Eric Chaînet, Frédéric Charlot et Stéphane Coindeau

*Electrochimica Acta*, **56**(3), (2011), pp. 1275 -1282 [\[DOI : 10.1016/j.electacta.2010.09.107\]](https://doi.org/10.1016/j.electacta.2010.09.107)

**2011 - ACL-195**

Electrochemical reduction of cerium oxide into metal

Benoît Claux, Jérôme Serp et Jacques Fouletier

*Electrochimica Acta*, **56**(7), (2011), pp. 2771 -2780 [\[DOI : 10.1016/j.electacta.2010.12.040\]](https://doi.org/10.1016/j.electacta.2010.12.040)

**2011 - ACL-196**

Electrochemical studies of Zn underpotential/overpotential deposition on a nickel electrode from non-cyanide alkaline solution containing glycine

Juan Ballesteros, [Eric Chaînet](#), [Patrick Ozil](#), Gabriel Trejo et Yunny Meas  
*Electrochimica Acta*, **56**(16), (2011), pp. 5443 -5451 [\[DOI : 10.1016/j.electacta.2011.02.106\]](#)

**2011 - ACL-197**

Tribocorrosion of UNS S32750 in chloride medium: Effect of the load level  
Rodrigo Silva, [Ricardo Nogueira](#) et Ivan Bastos  
*Electrochimica Acta*, **56**(24), (2011), pp. 8839 -8845 [\[DOI : 10.1016/j.electacta.2011.07.077\]](#)

**2011 - ACL-198**

Anodic behavior of gold in 1-butyl-3-methylimidazolium methanesulfonate ionic liquid with chloride anion  
[Emmanuel Billy](#), [Eric Chaînet](#) et [Farouk Tedjar](#)  
*Electrochimica Acta*, **56**(28), (2011), pp. 10340 -10346 [\[DOI : 10.1016/j.electacta.2011.04.055\]](#)

**2011 - ACL-199**

Do not forget the electrochemical characteristics of the membrane electrode assembly when designing a Proton Exchange Membrane Fuel Cell stack  
Claude Lamy, Deborah Jones, Christophe Coutanceau, Pascal Brault, S. Martemianov et [Yann Bultel](#)  
*Electrochimica Acta*, **56**(28), (2011), pp. 10406 -10423 [\[DOI : 10.1016/j.electacta.2011.05.098\]](#)

**2011 - ACL-200**

Further insights into the durability of Pt<sub>3</sub>Co/C electrocatalysts: Formation of 'hollow' Pt nanoparticles induced by the Kirkendall effect  
[Laetitia Dubau](#), [Julien Durst](#), [Frédéric Maillard](#), Laure Guétaz, [Marian Chatenet](#), Johan André et Elisabeth Rossinot  
*Electrochimica Acta*, **56**(28), (2011), pp. 10658 -10667 [\[DOI : 10.1016/j.electacta.2011.03.073\]](#)

**2011 - ACL-201**

Local etching of copper films by the Scanning Electrochemical Microscope in the feedback mode: A theoretical and experimental investigation  
Renaud Cornut, Sandra Nunige, [Christine Lefrou](#) et Frédéric Kanoufi  
*Electrochimica Acta*, **56**(28), (2011), pp. 10701 -10707 [\[DOI : 10.1016/j.electacta.2011.03.088\]](#)

**2011 - ACL-202**

Poly(oxyethylene) electrolytes based on lithium nitrophenyl sulfonamide and hexanitrodiphenylamide  
Elie Paillard, [Fannie Alloin](#), Laure Cointeaux, [Cristina Iojoiu](#) et [Jean-Yves Sanchez](#)  
*Electrochimica Acta*, **57**, (2011), pp. 20 -26 [\[DOI : 10.1016/j.electacta.2011.05.006\]](#)

**2011 - ACL-203**

Poly(vinylidene fluoride)-based macroporous separators for supercapacitors  
Duygu Karabelli, [Jean-Claude Leprêtre](#), [Fannie Alloin](#) et [Jean-Yves Sanchez](#)  
*Electrochimica Acta*, **57**, (2011), pp. 98 -103 [\[DOI : 10.1016/j.electacta.2011.03.033\]](#)

**2011 - ACL-204**

Synthesis, Electrochemical and Optical Absorption Properties of New Perylene-3,4:9,10-bis(dicarboximide) and Perylene-3,4:9,10-bis(benzimidazole) Derivatives  
[Lara Perrin](#) et Pietrick Hudhomme  
*European Journal of Organic Chemistry*, **2011**(28), (2011), pp. 5427 -5440 [\[DOI : 10.1002/ejoc.201100513\]](#)

**2011 - ACL-205**

Influence of the aspect ratio on boiling flows in rectangular mini-channels  
[Ulrich Soupremanien](#), Stéphane Le Person, Michel Favre-Marinet et [Yann Bultel](#)  
*Experimental Thermal and Fluid Science*, **35**(5), (2011), pp. 797 -809 [\[DOI : 10.1016/j.expthermflusci.2010.06.014\]](#)

**2011 - ACL-206**

Copper cementation on zinc and iron mixtures: Part 2: Fluidized bed configuration  
Fabrice Gros, [Stéphane Baup](#) et Marc Arousseau  
*Hydrometallurgy*, **106**(1-2), (2011), pp. 119 -126 [\[DOI : 10.1016/j.hydromet.2010.12.012\]](#)

**2011 - ACL-207**

Copper cementation on zinc and iron mixtures: Part 1: Results on rotating disc electrode  
Fabrice Gros, [Stéphane Baup](#) et Marc Arousseau  
*Hydrometallurgy*, **106**(1-2), (2011), pp. 127 -133 [\[DOI : 10.1016/j.hydromet.2010.12.011\]](#)

**2011 - ACL-208**

Electrochemical formation of bi-versus tetranuclear mu-oxo terpyridine manganese complexes in CH<sub>3</sub>CN. Influence of the terpyridine substituents  
Sophie Romain, Carole Duboc, Marius Retegan, [Jean-Claude Leprêtre](#), Allan Blackman, Alain Deronzier et Marie-Noëlle Collomb  
*Inorganica Chimica Acta*, **374**(1), (2011), pp. 187 -196 [\[DOI : 10.1016/j.ica.2011.03.016\]](#)

**2011 - ACL-209**

Electrocristallization of Copper from Non-Cyanide Alkaline Solution Containing Glycine  
Juan Ballesteros, [Eric Chaînet](#), [Patrick Ozil](#), Yunny Meas et Gabriel Trejo  
*International Journal of Electrochemical Science*, **6**(5), (2011), pp. 1597 -1616

**2011 - ACL-210**

Electrodeposition of Copper from Non-Cyanide Alkaline Solution Containing Tartrate  
Juan Ballesteros, [Eric Chaînet](#), [Patrick Ozil](#), Yunny Meas et Gabriel Trejo  
*International Journal of Electrochemical Science*, **6**(7), (2011), pp. 2632 -2651

**2011 - ACL-211**

Synthesis and characterization of electrocatalysts for the oxygen evolution in PEM water electrolysis

E. Mayousse, [Frédéric Maillard](#), F. Fouda-Onana, O. Sicardy et Nicolas Guillet  
*International Journal of Hydrogen Energy*, **36**(17), (2011), pp. 10474 -10481 [\[DOI : 10.1016/j.ijhydene.2011.05.139\]](#)

**2011 - ACL-212**

Effect of aromatic aldehydes on the electrodeposition of ZnCo alloy from cyanide-free alkaline-gluconate electrolytes

José Ortiz-Aparicio, Yunny Meas, Gabriel Trejo, Raúl Ortega, Thomas Chapman, [Eric Chaînet](#) et [Patrick Ozil](#)

*Journal of Applied Electrochemistry*, **41**(6), (2011), pp. 669 -679 [\[DOI : 10.1007/s10800-011-0279-y\]](#)

**2011 - ACL-213**

Enhanced thermal performances of silicon-on-diamond wafers incorporating ultrathin nanocrystalline diamond and silicon layers: Raman and micro-Raman analysis

Jean-Paul Mazellier, [Michel Mermoux](#), F. Andrieu, Julie Widiez, Jérôme Dechamp, Samuel Saada, Mathieu Lions, Masataka Hasegawa, Kazuo Tsugawa, Philippe Bergonzo et Olivier Faynot

*Journal of Applied Physics*, **110**(8), (2011), p.084901 [\[DOI : 10.1063/1.3643006\]](#)

**2011 - ACL-214**

Understanding the Degradation of MEA in PEMFC: Definition of Structural Markers and Comparison Between Laboratory and On-Site Ageing

[Gilles De Moor](#), [Corine Bas](#), Freddy Lesage, Anne-Sophie Danérol, Eric Claude, Elisabeth Rossinot, Marion Paris, [Lionel Flandin](#) et [Nicole Albérola](#)

*Journal of Applied Polymer Science*, **120**(6), (2011), pp. 3501 -3510 [\[DOI : 10.1002/app.33506\]](#)

**2011 - ACL-215**

Charge carrier mobility and concentration as a function of composition in AgPO<sub>3</sub>-AgI glasses

Ana Rodrigues, , Caio Bragatto et [Jean-Louis Souquet](#)

*Journal of Chemical Physics*, **135**(23), (2011), [7 pages] [\[DOI : 10.1063/1.3666835\]](#)

**2011 - ACL-216**

Search for multi-functional catalysts: The electrooxidation of acetaldehyde on Platinum-Ruthenium-Rhodium electrodeposits

Gisele Mello, M. Janete Giza, Giuseppe Camara, Alexandre Crisci et [Marian Chatenet](#)

*Journal of Electroanalytical Chemistry*, **660**(1), (2011), pp. 85 -90 [\[DOI : 10.1016/j.jelechem.2011.06.009\]](#)

**2011 - ACL-217**

Syntheses of a wide family of new aryl based perfluorosulfonimide lithium salts. Electrochemical performances of the related polymer electrolytes

Elie Paillard, Fabien Toulgoat, Roman Arvai, [Cristina Iojoiu](#), [Laure Cointeaux](#), Maurice

Médebielle, [Fannie Alloin](#), Bernard Langlois et [Jean-Yves Sanchez](#)  
*Journal of Fluorine Chemistry*, **132**(12), (2011), pp. 1213 -1218 [DOI :  
[10.1016/j.jfluchem.2011.06.041](https://doi.org/10.1016/j.jfluchem.2011.06.041)]

**2011 - ACL-218**

Sorption of selenium oxyanions on TiO<sub>2</sub> (rutile) studied by batch or column experiments and spectroscopic methods

[Lenka Švecová](#), Manuel Dossot, Sébastien Cremel, Marie-Odile Simonnot, Michel Sardin, Bernard Humbert, Christophe Den Auwer et Laurent Michot  
*Journal of Hazardous Materials*, **189**(3), (2011), pp. 764-772 [DOI :  
[10.1016/j.jhazmat.2011.02.090](https://doi.org/10.1016/j.jhazmat.2011.02.090)]

**2011 - ACL-219**

Optimizing the heat sealing parameters of multilayers polymeric films

[Emilie Planes](#), Sofiene Marouani et [Lionel Flandin](#)  
*Journal of Materials Science*, **46**(18), (2011), pp. 5948 -5958 [DOI : [10.1007/s10853-011-5550-4](https://doi.org/10.1007/s10853-011-5550-4)]

**2011 - ACL-220**

Influence of glass and gold sealants materials on oxygen permeation performances in La<sub>0.8</sub>Sr<sub>0.2</sub>Fe<sub>0.7</sub>Ga<sub>0.3</sub>O<sub>3-δ</sub> perovskite membranes

A. Vivet, P. Geffroy, V. Coudert, [Jacques Fouletier](#), N. Richet et T. Chartier  
*Journal of Membrane Science*, **366**(1-2), (2011), pp. 132 -138 [DOI :  
[10.1016/j.memsci.2010.09.048](https://doi.org/10.1016/j.memsci.2010.09.048)]

**2011 - ACL-221**

Hydrolytic degradation of sulfonated polyimide membranes for fuel cells

Carine Perrot, Laurent Gonon, [Catherine Marestin](#) et Gérard Gebel  
*Journal of Membrane Science*, **379**(1-2), (2011), pp. 207 -214 [DOI :  
[10.1016/j.memsci.2011.05.063](https://doi.org/10.1016/j.memsci.2011.05.063)]

**2011 - ACL-222**

Hydrogen Electro-Insertion into Pd/Pt(111) Nanofilms: An in Situ Surface X-ray Diffraction Study

[Yvonne Soldo-Olivier](#), Manon Lafouresse, Maurizio De Santis, Christelle Lebouin, Marc De Boissieu et [Eric Sibert](#)  
*Journal of Physical Chemistry C*, **115**(24), (2011), pp. 12041 -12047 [DOI :  
[10.1021/jp201376d1](https://doi.org/10.1021/jp201376d1)]

**2011 - ACL-223**

In Situ Infrared (FTIR) Study of the Mechanism of the Borohydride Oxidation Reaction on Smooth Pt Electrode

[Maria Molina Concha](#), [Marian Chatenet](#), Edson Ticianelli et Fabio Lima  
*Journal of Physical Chemistry C*, **115**(25), (2011), pp. 12439 -12447 [DOI :  
[10.1021/jp2002589j](https://doi.org/10.1021/jp2002589j)]

**2011 - ACL-224**

Spinel-type solid solutions involving Mn<sup>4+</sup> and Ti<sup>4+</sup>: Crystal chemistry, magnetic and electrochemical properties

My Le, Pierre Strobel, Claire Colin, Thierry Pagnier et Fannie Alloin

*Journal of Physics and Chemistry of Solids*, **72**(2), (2011), pp. 124 -135 [\[DOI: 10.1016/j.jpcs.2010.11.010\]](#)

**2011 - ACL-225**

Synthesis and Photochemical Properties of Novel Pentamethylated Norbornadiene Containing Polyimides

Ahmed Oueslati, Hatem Ben Romdhane, Vincent Martin, Frédéric Schiets, Régis Mercier et Refaat Chaabouni

*Journal of Polymer Science Part A: Polymer Chemistry*, **49**(9), (2011), pp. 1988 - 1998 [\[DOI: 10.1002/pola.24626\]](#)

**2011 - ACL-226**

On the Origin of the 'Core-Free' Morphology in Microinjection-Molded HDPE

Julien Giboz, Anne Spoelstra, Giuseppe Portale, Thierry Copponnex, Han Meijer, Gerrit Peters et Patrice Mélé

*Journal of Polymer Science Part B: Polymer Physics*, **49**(20), (2011), pp. 1470 - 1478 [\[DOI: 10.1002/polb.22332\]](#)

**2011 - ACL-227**

Confined Crystallization of PVDF and a PVDF-TFE Copolymer in Nanolayered Films  
Matthew Mackey, Lionel Flandin, Anne Hiltner et Eric Baer

*Journal of Polymer Science Part B: Polymer Physics*, **49**(24), (2011), pp. 1750-1761 [\[DOI: 10.1002/polb.22375\]](#)

**2011 - ACL-228**

Modelling of solid oxide steam electrolyser Impact of the operating conditions on hydrogen production

Jérôme Laurencin, Dame Kane, Gérard Delette, Jonathan Deseure et Florence Lefebvre-Joud

*Journal of Power Sources*, **196**(4), (2011), pp. 2080 -2093 [\[DOI: 10.1016/j.jpowsour.2010.09.054\]](#)

**2011 - ACL-229**

Influence of ageing in fuel cell on membrane/electrodes interfaces

Anne-Sophie Danérol, Corine Bas, Lionel Flandin, Eric Claude et Nicole Albérola

*Journal of Power Sources*, **196**(7), (2011), pp. 3479 -3484 [\[DOI: 10.1016/j.jpowsour.2010.12.014\]](#)

**2011 - ACL-230**

Performance of (La,Sr)(Co,Fe)O<sub>3-x</sub> double-layer cathode films for intermediate temperature solid oxide fuel cell

Daniel Marinha, Jan Hayd, Laurent Dessemond, Ellen Ivers-Tiffée et Elisabeth Djurado

*Journal of Power Sources*, **196**(11), (2011), pp. 5084 -5090 [\[DOI: 10.1016/j.jpowsour.2011.01.063\]](#)

**2011 - ACL-231**

Sintering and conductivity of  $\text{BaCe}_{0.9}\text{Y}_{0.1}\text{O}_{2.95}$  synthesized by the sol-gel method  
Agnès Princivalle, Guilhem Martin, Céline Viazzi, Christian Guizard, Nicolas Grunbaum  
et Laurent Dessemond

*Journal of Power Sources*, **196**(22), (2011), pp. 9238 -9245 [\[DOI : 10.1016/j.jpowsour.2011.07.048\]](#)

**2011 - ACL-232**

Computing approach of cathodic process within solid oxide electrolysis cell:  
Experiments and continuum model validation  
Dominique Grondin, Jonathan Deseure, Patrick Ozil, J.-P. Chabriat, B. Grondin-Perez  
et Annabelle Brisse

*Journal of Power Sources*, **196**(22), (2011), pp. 9561 -9567 [\[DOI : 10.1016/j.jpowsour.2011.07.033\]](#)

**2011 - ACL-233**

High-pressure polarized Raman spectra of  $\text{Gd}_2(\text{MoO}_4)_3$ : phase transitions and  
amorphization

Guy Lucazeau, Olivier Le Bacq, Alain Pasturel, Pierre Bouvier et Thierry Pagnier

*Journal of Raman Spectroscopy*, **42**(3), (2011), pp. 452 -460 [\[DOI : 10.1002/jrs.2731\]](#)

**2011 - ACL-234**

Fluorescent organic nanocrystal confined in sol-gel matrix for bio-imaging  
Cécile Philippot, Fabien Dubois, Maria Bacia, Elisabeth Djurado et Alain Ibanez

*Journal of Sol-Gel Science and Technology*, **57**(3), (2011), pp. 253 -257 [\[DOI : 10.1007/s10971-010-2175-z\]](#)

**2011 - ACL-235**

From  $(1)(\infty)[\text{UO}_2(\text{O}(\text{MoO}_4)_4]^{6-}$  to  
 $(1)(\infty)[(\text{UO}_2)_2(\text{MoO}_4)_3(\text{MoO}_5)]^{6-}$  infinite chains in  
 $\text{A}_6\text{U}_2\text{Mo}_4\text{O}_{21}$  (A=Na, K, Rb, Cs) compounds: Synthesis and crystal structure of  
 $\text{Cs}_6[(\text{UO}_2)_2(\text{MoO}_4)_3(\text{MoO}_5)]$

Saïd Yagoubi, Saïd Obbade, S. Saad et Francis Abraham

*Journal of Solid State Chemistry*, **184**(5), (2011), pp. 971 -981 [\[DOI : 10.1016/j.jssc.2011.01.010\]](#)

**2011 - ACL-236**

Simple and direct interpretation of phase angles or derivation degrees in term of  
energy conservation vs. dissipation with Formal Graphs

Eric Vieil

*Journal of Solid State Electrochemistry*, **15**(5), (2011), pp. 955 -969 [\[DOI : 10.1007/s10008-011-1308-9\]](#)

**2011 - ACL-237**

Spark Plasma Sintering Kinetics of Pure alpha-Alumina

Yann Aman, Vincent Garnier et Elisabeth Djurado



*Journal of the American Ceramic Society*, **94**(9), (2011), pp. 2825 -2833 [\[DOI: 10.1111/j.1551-2916.2011.04424.x\]](#)

**2011 - ACL-238**

Electrochemical Behavior of Copper in Drinking Water: Evaluation of Dissolution Process at Low Anodic Overpotential

J. Rios, J. Calderon et [Ricardo Nogueira](#)

*Journal of the Brazilian Chemical Society*, **22**(7), (2011), pp. 1362 -1370

**2011 - ACL-239**

Dynamic Modeling of Li-Ion Batteries Using an Equivalent Electrical Circuit

[Trung Dong](#), Angel Kirchev, Florence Mattera, J. Kowal et [Yann Bultel](#)

*Journal of the Electrochemical Society*, **158**(3), (2011), pp. A326 -A336 [\[DOI: 10.1149/1.3543710\]](#)

**2011 - ACL-240**

Evaluation of Several Carbon-Supported Nanostructured Ni-Doped Manganese Oxide Materials for the Electrochemical Reduction of Oxygen

Amanda Garcia, Alberto Diaz Herrera, Edson Ticianelli, [Marian Chatenet](#) et Christiane Poinignon

*Journal of the Electrochemical Society*, **158**(3), (2011), pp. B290 -B296 [\[DOI: 10.1149/1.3528439\]](#)

**2011 - ACL-241**

Synthesis and Properties of Platinum Nanocatalyst Supported on Cellulose-Based Carbon Aerogel for Applications in PEMFCs

Joanna Rooke, Camila Passos, [Marian Chatenet](#), Romain Sescousse, Tatiana Budtova, Sandrine Berthon-Fabry, Renaud Mosdale et [Frédéric Maillard](#)

*Journal of the Electrochemical Society*, **158**(7), (2011), pp. B779 -B789 [\[DOI: 10.1149/1.3585744\]](#)

**2011 - ACL-242**

Influence of Oxygen Surface Exchanges on Oxygen Semi-Permeation through  $\text{La}_{(1-x)}\text{Sr}_x\text{Fe}_{(1-y)}\text{Ga}_y\text{O}_{3-\delta}$  Dense Membrane

P. Geffroy, A. Vivet, [Jacques Fouletier](#), N. Richet, P. Del Gallo et T. Chartier

*Journal of the Electrochemical Society*, **158**(8), (2011), pp. B971 -B979 [\[DOI: 10.1149/1.3597086\]](#)

**2011 - ACL-243**

Flash grain welding in yttria stabilized zirconia

R. Muccillo, [Michel Kleitz](#) et Eliana Muccillo

*Journal of the European Ceramic Society*, **31**(8), (2011), pp. 1517 -1521 [\[DOI: 10.1016/j.jeurceramsoc.2011.02.030\]](#)

**2011 - ACL-244**

Corrigendum to "Flash grain welding in yttria stabilized zirconia" (vol 31, pg 1517, 2011)

R. Muccillo, [Michel Kleitz](#) et Eliana Muccillo

*Journal of the European Ceramic Society*, **31**(13), (2011), pp. 2175 -2175 [\[DOI : 10.1016/j.jeurceramsoc.2011.05.030\]](https://doi.org/10.1016/j.jeurceramsoc.2011.05.030)

**2011 - ACL-245**

New NO<sub>x</sub> sensors based on hematite doped with alkaline and alkaline-earth elements  
Jean-Marc Tulliani, Chiara Baroni, [Christian Lopez](#) et [Laurent Dessemond](#)  
*Journal of the European Ceramic Society*, **31**(13), (2011), pp. 2357 -2364 [\[DOI : 10.1016/j.jeurceramsoc.2011.05.031\]](https://doi.org/10.1016/j.jeurceramsoc.2011.05.031)

**2011 - ACL-246**

FACTORIAL DESIGN APPLIED TO CORROSION OF SUPERDUPLEX STAINLESS STEEL  
[Thiago Mesquita](#), [Ricardo Nogueira](#) et Ivan Bastos  
*Latin American applied research*, **41**(4), (2011), pp. 311 -315

**2011 - ACL-247**

Anomalous corrosion resistance behavior of Mo-containing SS in alkaline media: The role of microstructure  
[Thiago Mesquita](#), [Edouard Chauveau](#), Marc Mantel, Nicole Kinsman et [Ricardo Nogueira](#)  
*Materials Chemistry and Physics*, **126**(3), (2011), pp. 602 -606 [\[DOI : 10.1016/j.matchemphys.2011.01.013\]](https://doi.org/10.1016/j.matchemphys.2011.01.013)

**2011 - ACL-248**

Elaboration of thin and dense CGO films adherent to YSZ by electrostatic spray deposition for IT-SOFC applications  
[Cécile Rossignol](#), Benjamin Roman, Guilherme Benetti et [Elisabeth Djurado](#)  
*New Journal of Chemistry*, **35**(3), (2011), pp. 716 -723 [\[DOI : 10.1039/c0nj00570c\]](https://doi.org/10.1039/c0nj00570c)

**2011 - ACL-249**

Vortex pinning in bulk-processed Y-Ba-Cu-O with ZrO<sub>2</sub> nano-particles: Optimum pinning center size  
N. Moutalbi, A. Ouerghi, [Elisabeth Djurado](#), J. Noudem et A. M'chirgui  
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**2011 - ACL-250**

Structure characterization of spark plasma sintered alumina by positron annihilation lifetime spectroscopy  
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**2011 - ACL-251**

Residual strain around grown-in defects in CVD diamond single crystals: A 2D and 3D Raman imaging study  
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**2011 - ACL-252**

The free positron lifetime in amorphous polymers at low temperature  
Nicolas Laforest, [Corine Bas](#), Jérémie De Baerdemaeker, Nikolay Djourellov et Charles Dauwe  
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**2011 - ACL-253**

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**2011 - ACL-254**

Free volume and energy barriers to equilibrium viscosity and ionic transport in alkali disilicates  
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**2011 - ACL-255**

Synthesis and characterization of fullerene based systems for photovoltaic applications: Evidence for percolation threshold  
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**2011 - ACL-256**

Towards Extrusion of Ionomers to Process Fuel Cell Membranes  
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**2011 - ACL-257**

Interest and durability of multilayers: from model films to complex films  
Géraldine Garnier, Sofiene Marouani, Bernard Yrieix, Claude Pompeo, Michel Chauvois, [Lionel Flandin](#) et Yves Bréchet  
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**2011 - ACL-258**

Lean duplex stainless steels - The role of molybdenum addition on pitting corrosion of concrete reinforcements  
[Thiago Mesquita](#), [Edouard Chauveau](#), Marc Mantel, Nicole Kinsman et [Ricardo Nogueira](#)  
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**2011 - ACL-259**

Using rheometry to determine nucleation density in a colored system containing a nucleating agent

Zhe Ma, Rudi Steenbakkens, [Julien Giboz](#) et Gerrit Peters

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**2011 - ACL-260**

Oxido-reduction properties of  $\text{La}_{0.7}\text{Sr}_{0.3}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$  perovskite oxide catalyst

[Elisabeth Siebert](#), [Claude Roux](#), Antoinette Boréave, François Gaillard et Philippe Vernoux

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**2011 - ACL-261**

Preliminary studies of the new Ce-doped La/Sr chromo-manganite series as potential SOFC anode or SOEC cathode materials

Elisa Lay, Gilles Gauthier et [Laurent Dessemond](#)

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**2011 - ACL-262**

Reducibility of  $\text{La}_2\text{Mo}_2\text{O}_9$  based ceramics versus porosity

[Meenal Goel](#), [Elisabeth Djurado](#) et [Samuel Georges](#)

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**2011 - ACL-263**

A robust multivariable approach for hybrid fuel cell supercapacitor power generation system

David Hernandez, Delphine Riu, Olivier Senname et [Florence Druart](#)

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**2011 - ACL-264**

Effects of sonochemical parameters and inorganic ions during the sonochemical degradation of crystal violet in water

Fernando Guzman-Duque, [Christian Pétrier](#), César Pulgarin, Gustavo Penuela et Ricardo Torres-Palma

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**2011 - ACL-265**

Sonolytic degradation of endocrine disrupting chemical 4-cumylphenol in water

Mahdi Chiha, Oualid Hamdaoui, [Stéphane Baup](#) et [Nicolas Gondrexon](#)

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