

2013 - ACL-345

Contactless Surface Conductivity Mapping of Graphene Oxide Thin Films Deposited on Glass with Scanning Electrochemical Microscopy

Joel Azevedo, Celine Bourdillon, Vincent Derycke, Stéphane Campidelli, [Christine Lefrou](#) et Renaud Cornut

Analytical Chemistry, **85**(3), (2013), pp. 1812-1818 [\[DOI : 10.1021/ac303173d\]](#)

2013 - ACL-346

Regeneration of deactivated catalysts coated on foam and monolith: Example of Pd/C for nitrobenzene hydrogenation

Florica Simescu-Lazar, Valérie Meille, Stéphanie Pallier, [Eric Chaînet](#) et Claude De Bellefon

Applied Catalysis A: General, **453**, (2013), pp. 28-33 [\[DOI : 10.1016/j.apcata.2012.11.044\]](#)

2013 - ACL-347

Degradation heterogeneities induced by repetitive start/stop events in proton exchange membrane fuel cell: Inlet vs. outlet and channel vs. land

[Julien Durst](#), Adrien Lamibrac, Frédéric Charlot, Jérôme Dillet, [Luis Castanheira](#), Gaël Maranzana, [Laetitia Dubau](#), [Frédéric Maillard](#), [Marian Chatenet](#) et Olivier Lottin

Applied Catalysis B: Environmental, **138**, (2013), pp. 416-426 [\[DOI : 10.1016/j.apcatb.2013.03.021\]](#)

2013 - ACL-348

Probing the structure, the composition and the ORR activity of Pt₃Co/C nanocrystallites during a 3422 h PEMFC ageing test

[Laetitia Dubau](#), Miguel Lopez-Haro, [Luis Castanheira](#), [Julien Durst](#), [Marian Chatenet](#), Pascale Bayle-Guillemaud, Laure Guétaz, Nicolas Caqué, Elisabeth Rossinot et [Frédéric Maillard](#)

Applied Catalysis B: Environmental, **142**, (2013), pp. 801-808 [\[DOI : 10.1016/j.apcatb.2013.06.011\]](#)

2013 - ACL-349

Effect of filler auto-assembly on percolation transition in carbon nanotube/polymer composites

Anthony Combessis, Lorrene Bayon et [Lionel Flandin](#)

Applied Physics Letters, **102**(1), (2013), [4 pages] [\[DOI : 10.1063/1.4773994\]](#)

2013 - ACL-350

XPS study of the Mo effect on passivation behaviors for highly controlled stainless steels in neutral and alkaline conditions

[Thiago Mesquita](#), [Edouard Chauveau](#), Marc Mantel et [Ricardo Nogueira](#)

Applied Surface Science, **270**, (2013), pp. 90-97 [\[DOI : 10.1016/j.apsusc.2012.12.118\]](#)

2013 - ACL-351

Label-free impedimetric thrombin sensor based on poly(pyrrole-nitrilotriacetic acid)-aptamer film

Hui Xu, Karine Gorgy, Chantal Gondran, Alan Le Goff, Nicolas Spinelli, [Christian Lopez](#),

Eric Defrancq et Serge Cosnier

Biosensors and Bioelectronics, **41**, (2013), pp. 90-95 [\[DOI : 10.1016/j.bios.2012.07.044\]](https://doi.org/10.1016/j.bios.2012.07.044)

2013 - ACL-352

A composite material made of carbon nanotubes partially embedded in a nanocrystalline diamond film

Clément Hébert, Sébastien Ruffinatto, David Eon, [Michel Mermoux](#), Etienne Gheeraert, Franck Omnès et Pascal Mailley

Carbon, **52**, (2013), pp. 408-417 [\[DOI : 10.1016/j.carbon.2012.09.051\]](https://doi.org/10.1016/j.carbon.2012.09.051)

2013 - ACL-353

Ageing effect on electrical properties of the oxyapatite/ Nd_2NiO_4 interface

Sami Chefi, Messoud Kahlaoui, Abdwaheb Inoubli, Adel Madani et [Abdelkader Hammou](#)

Ceramics International, **39**(4), (2013), pp. 4507-4512 [\[DOI : 10.1016/j.ceramint.2012.11.046\]](https://doi.org/10.1016/j.ceramint.2012.11.046)

2013 - ACL-354

New insight into the working mechanism of lithium-sulfur batteries: in situ and operando X-ray diffraction characterization

Sylwia Walus, Céline Barchasz, Jean-Francois Colin, Jérôme Martin, Erik Elkaïm, [Jean-Claude Leprêtre](#) et [Fannie Alloin](#)

Chemical Communications, **49**(72), (2013), pp. 7899-7901 [\[DOI : 10.1039/c3cc43766c\]](https://doi.org/10.1039/c3cc43766c)

2013 - ACL-355

Solid oxide electrolysis cell 3D simulation using artificial neural network for cathodic process description

Dominique Grondin, [Jonathan Deseure](#), Patrick Ozil, J.-P. Chabriat, B. Grondin-Perez et Annabelle Brisse

Chemical Engineering Research and Design, **91**(1), (2013), pp. 134-140 [\[DOI : 10.1016/j.cherd.2012.06.003\]](https://doi.org/10.1016/j.cherd.2012.06.003)

2013 - ACL-356

Rational selection of MIEC materials in energy production processes

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

Chemical Engineering Science, **87**, (2013), pp. 408-433 [\[DOI : 10.1016/j.ces.2012.10.027\]](https://doi.org/10.1016/j.ces.2012.10.027)

2013 - ACL-357

Oxygen semi-permeation performances of $\text{La}_{1-x}\text{A}_x\text{Co}_{1-y-z}\text{Fe}_y\text{Ta}_z\text{O}_{3-\delta}$ perovskite (with A=Sr and Ba)

P. Geffroy, M. Reichmann, [Jacques Fouletier](#), N. Richet et T. Chartier

Chemical Engineering Science, **104**, (2013), pp. 817-828 [\[DOI : 10.1016/j.ces.2013.09.030\]](https://doi.org/10.1016/j.ces.2013.09.030)

2013 - ACL-358

Time domain simulation of Li-ion batteries using non-integer order equivalent electrical circuit

Delphine Riu, M. Montaru et [Yann Bultel](#)

Communications in Nonlinear Science and Numerical Simulation, **18**(6), (2013), pp. 1454-1462 [\[DOI : 10.1016/j.cnsns.2012.06.028\]](https://doi.org/10.1016/j.cnsns.2012.06.028)

2013 - ACL-359

Confrontation between Molecular Dynamics and micromechanical approaches to investigate particle size effects on the mechanical behaviour of polymer nanocomposites

V. Marcadon, [David Brown](#), E. Hervé, [Patrice Mélé](#), [Nicole Albérola](#) et A. Zaoui
Computational Materials Science, **79**, (2013), pp. 495-505 [\[DOI : 10.1016/j.commatsci.2013.07.002\]](https://doi.org/10.1016/j.commatsci.2013.07.002)

2013 - ACL-360

Electrochemical Behavior of Metals Used in Drinking Water Distribution Systems: A Rotating Cylinder Electrode's Study

J. Rios, J. Calderon et [Ricardo Nogueira](#)
Corrosion, **69**(9), (2013), pp. 875-885 [\[DOI : 10.5006/0848\]](https://doi.org/10.5006/0848)

2013 - ACL-361

Comprehensive Review of Current Developments in IT-SOFCs

[Daniel Marinha](#), [Laurent Dessemond](#) et [Elisabeth Djurado](#)
Current Inorganic Chemistry, **3**(1), (2013), pp. 2-22 [\[DOI : 10.2174/1877944111303010003\]](https://doi.org/10.2174/1877944111303010003)

2013 - ACL-362

Excited-state spectroscopic investigations of multinuclear complexes based on $[\text{Ru}(\text{bpy})_3]^{2+}$ moieties connected to 2,2'-bipyridine and 2,2';6',2''-terpyridine ligands
Raphael Horvath, Jean Lombard, [Jean-Claude Leprêtre](#), Marie-Noëlle Collomb, Alain Deronzier, Jérôme Chauvin et Keith Gordon

Dalton Transactions, **42**, (2013), pp. 16527-16537 [\[DOI : 10.1039/C3DT52153B\]](https://doi.org/10.1039/C3DT52153B)

2013 - ACL-363

Identical-Location Transmission Electron Microscopy Study of Pt/C and Pt-Co/C Nanostructured Electrocatalyst Aging: Effects of Morphological and Compositional Changes on the Oxygen Reduction Reaction Activity

Flávio Nikkuni, Edson Ticianelli, [Laetitia Dubau](#) et [Marian Chatenet](#)
Electrocatalysis, **4**(2), (2013), pp. 104-116 [\[DOI : 10.1007/s12678-013-0126-5\]](https://doi.org/10.1007/s12678-013-0126-5)

2013 - ACL-364

Effect of Lithium and Potassium Cations on the Electrocatalytic Properties of Carbon and Manganese Oxide Electrocatalysts Towards the Oxygen Reduction Reaction in Concentrated Alkaline Electrolyte

Florian Moureaux, Philippe Stevens et [Marian Chatenet](#)
Electrocatalysis, **4**(3), (2013), pp. 123-133 [\[DOI : 10.1007/s12678-013-0127-4\]](https://doi.org/10.1007/s12678-013-0127-4)

2013 - ACL-365

Influence of crystallinity and particle size on the electrochemical properties of spray pyrolyzed $\text{Nd}_2\text{NiO}_{4+\delta}$ powders

David Mesguich, Jean-Marc Bassat, Cyril Aymonier, Anne-Lise Brüll, [Laurent](#)

Dessemond et Elisabeth Djurado
Electrochimica Acta, **87**, (2013), pp. 330-335 [\[DOI : 10.1016/j.electacta.2012.07.134\]](https://doi.org/10.1016/j.electacta.2012.07.134)

2013 - ACL-366

Influence of geometry-induced current and potential distributions on the characterization of constant-phase element behavior

P. Córdoba-Torres, Thiago Mesquita et Ricardo Nogueira

Electrochimica Acta, **87**, (2013), pp. 676-685 [\[DOI : 10.1016/j.electacta.2012.09.060\]](https://doi.org/10.1016/j.electacta.2012.09.060)

2013 - ACL-367

Direct numerical simulations of electrochemical reactions in turbulent flow

Olivier Doche, F. Bauer et Sedat Tardu

Electrochimica Acta, **88**, (2013), pp. 365-372 [\[DOI : 10.1016/j.electacta.2012.09.098\]](https://doi.org/10.1016/j.electacta.2012.09.098)

2013 - ACL-368

Evaluation of acoustic emission as a suitable tool for aging characterization of LiAl/LiMnO₂ cell

Nina Kircheva, Sylvie Génies, C. Chabrol et Pierre-Xavier Thivel

Electrochimica Acta, **88**, (2013), pp. 488-494 [\[DOI : 10.1016/j.electacta.2012.10.121\]](https://doi.org/10.1016/j.electacta.2012.10.121)

2013 - ACL-369

Optimization of the shearforce signal for scanning electrochemical microscopy and application for kinetic analysis

Mathieu Etienne, Sébastien Lhenry, Renaud Cornut et Christine Lefrou

Electrochimica Acta, **88**, (2013), pp. 877-884 [\[DOI : 10.1016/j.electacta.2012.09.063\]](https://doi.org/10.1016/j.electacta.2012.09.063)

2013 - ACL-370

In situ Fourier transform infrared spectroscopy and on-line differential electrochemical mass spectrometry study of the NH₃BH₃ oxidation reaction on gold electrodes

Maria Concha, Marian Chatenet, Fabio Lima et Edson Ticianelli

Electrochimica Acta, **89**, (2013), pp. 607-615 [\[DOI : 10.1016/j.electacta.2012.11.027\]](https://doi.org/10.1016/j.electacta.2012.11.027)

2013 - ACL-371

Electrochemical properties of ether-based electrolytes for lithium/sulfur rechargeable batteries

Céline Barchasz, Jean-Claude Leprêtre, Sébastien Patoux et Fannie Alloin

Electrochimica Acta, **89**, (2013), pp. 737-743 [\[DOI : 10.1016/j.electacta.2012.11.001\]](https://doi.org/10.1016/j.electacta.2012.11.001)

2013 - ACL-372

Toward a better characterization of constant-phase element behavior on disk electrodes from direct impedance analysis: Methodological considerations and mass transport effects

P. Córdoba-Torres, Thiago Mesquita et Ricardo Nogueira

Electrochimica Acta, **92**, (2013), pp. 323-334 [\[DOI : 10.1016/j.electacta.2013.01.036\]](https://doi.org/10.1016/j.electacta.2013.01.036)

2013 - ACL-373

Investigation of methoxypropionitrile as co-solvent for ethylene carbonate based electrolyte in supercapacitors. A safe and wide temperature range electrolyte
Emmanuelle Perricone, [Mohamad Chamas](#), [Laure Cointeaux](#), [Jean-Claude Leprêtre](#),
Patrick Judeinstein, P. Azais, F. Beguin et [Fannie Alloin](#)
Electrochimica Acta, **93**, (2013), pp. 1-7 [\[DOI : 10.1016/j.electacta.2013.01.084\]](#)

2013 - ACL-374

Preparation and characterization of poly(vinylidene fluoride) based composite electrolytes for electrochemical devices
Duygu Karabelli, [Jean-Claude Leprêtre](#), [Laure Cointeaux](#) et [Jean-Yves Sanchez](#)
Electrochimica Acta, **109**, (2013), pp. 741-749 [\[DOI : 10.1016/j.electacta.2013.07.145\]](#)

2013 - ACL-375

An identical-location transmission electron microscopy study on the degradation of Pt/C nanoparticles under oxidizing, reducing and neutral atmosphere
[Laetitia Dubau](#), [Luis Castanheira](#), Grégory Berthomé et [Frédéric Maillard](#)
Electrochimica Acta, **110**, (2013), pp. 273-281 [\[DOI : 10.1016/j.electacta.2013.03.184\]](#)

2013 - ACL-376

Ion transfer dynamics of poly(3,4-ethylenedioxythiophene) films in deep eutectic solvents
A. Hillman, Karl Ryder, Virginia Ferreira, Christopher Zaleski et [Eric Vieil](#)
Electrochimica Acta, **110**, (2013), pp. 418-427 [\[DOI : 10.1016/j.electacta.2013.07.120\]](#)

2013 - ACL-377

Chemically controlled protective film based on biphenyl derivatives for high potential lithium battery
[Fannie Alloin](#), Omar El Tall, [Jean-Claude Leprêtre](#), [Laure Cointeaux](#), Laura Boutafa, [Jacques Guindet](#) et Jean-Frédéric Martin
Electrochimica Acta, **112**, (2013), pp. 74-81 [\[DOI : 10.1016/j.electacta.2013.08.113\]](#)

2013 - ACL-378

H electro-insertion into Pd/Pt(111) nanofilms: an original method for isotherm measurement coupled to in situ surface X-ray diffraction structural study
[Yvonne Soldo-Olivier](#), [Eric Sibert](#), [Bruno Previdello](#), Manon Lafouresse, [Frédéric Maillard](#) et Maurizio De Santis
Electrochimica Acta, **112**, (2013), pp. 905-912 [\[DOI : 10.1016/j.electacta.2013.06.095\]](#)

2013 - ACL-379

An all porous solid oxide fuel cell (SOFC): a bridging technology between dual and single chamber SOFCs
Youmin Guo, Amehdi Bessa, Sonia Aguado, [Marlu César Steil](#), Damien Rembelski, Mathilde Rieu, Jean-Paul Viricelle, Nassira Benameur, Christian Guizard, Caroline Tardivat, Philippe Vernoux et David Farrusseng
Energy & Environmental Science, **6**(7), (2013), pp. 2119-2123 [\[DOI : 10.1039/c3ee40131f\]](#)

2013 - ACL-380

Experimental investigations of fouling reduction in an ultrasonically-assisted heat exchanger

Mathieu Legay, Y. Allibert, Nicolas Gondrexon, Primus Boldo et Stéphane Le Person
Experimental Thermal and Fluid Science, **46**, (2013), pp. 111-119 [DOI: [10.1016/j.expthermflusci.2012.12.001](https://doi.org/10.1016/j.expthermflusci.2012.12.001)]

2013 - ACL-381

Characterization of PCFC-Electrolytes Deposited by Reactive Magnetron Sputtering; Comparison with Ceramic Bulk Samples

Mohammad Arab Pour Yazdi, Pascal Briois, Samuel Georges, Rémi Costa et Alain Billard
Fuel Cells, **13**(4), (2013), pp. 549-555 [DOI: [10.1002/fuce.201200170](https://doi.org/10.1002/fuce.201200170)]

2013 - ACL-382

Current Distribution Identification in Fuel Cell Stacks From External Magnetic Field Measurements

Mathieu Le Ny, Olivier Chadebec, Gilles Cauffet, Jean-Marc Dedulle, Yann Bultel, Sébastien Rosini, Yannick Fourneron et Patrick Kuo-Peng
IEEE Transactions On Magnetics, **49**(5), (2013), pp. 1925-1928 [DOI: [10.1109/TMAG.2013.2239967](https://doi.org/10.1109/TMAG.2013.2239967)]

2013 - ACL-383

Amine degradation in CO₂ capture. 2. New degradation products of MEA. Pyrazine and alky pyrazines: Analysis, mechanism of formation and toxicity

A. Rey, C. Guedard, N. Ledirac, M. Cohen, J. Dugay, J. Vial, V. Pichon, L. Bertomeu, Dominique Picq, D. Bontemps, F. Chopin et Pierre-Louis Carrette
International Journal of Greenhouse Gas Control, **19**, (2013), pp. 576-583 [DOI: [10.1016/j.ijggc.2013.10.018](https://doi.org/10.1016/j.ijggc.2013.10.018)]

2013 - ACL-384

Kinetics of hydrogen sorption by palladium nanoparticles

Christelle Lebouin, Yvonne Soldo, S. Grigoriev, Michel Guymont et Pierre Millet
International Journal of Hydrogen Energy, **38**(2), (2013), pp. 966-972 [DOI: [10.1016/j.ijhydene.2012.10.058](https://doi.org/10.1016/j.ijhydene.2012.10.058)]

2013 - ACL-385

Photocatalytic hydrogen evolution on new mesoporous material Bi₂S₃/Y-zeolite

Abderrezak Abdi, Alain Denoyelle, Nadine Commenges-Bernole et Mohamed Trari
International Journal of Hydrogen Energy, **38**(5), (2013), pp. 2070-2078 [DOI: [10.1016/j.ijhydene.2012.11.085](https://doi.org/10.1016/j.ijhydene.2012.11.085)]

2013 - ACL-386

Photocatalytic hydrogen production for PEMFC supply: A new issue

Julien Rodriguez, Pierre-Xavier Thivel et E. Puzenat
International Journal of Hydrogen Energy, **38**(15), (2013), pp. 6344-6348 [DOI: [10.1016/j.ijhydene.2013.03.026](https://doi.org/10.1016/j.ijhydene.2013.03.026)]

2013 - ACL-387

Micro modelling of solid oxide electrolysis cell: From performance to durability
Elisa Lay-Grindler, Jérôme Laurencin, Gérard Delette, [Jérôme Aicart](#), Marie Petitjean et [Laurent Dessemond](#)

International Journal of Hydrogen Energy, **38**(17), (2013), pp. 6917-6929 [\[DOI: 10.1016/j.ijhydene.2013.03.162\]](#)

2013 - ACL-388

Pre-coating of LSCM perovskite with metal catalyst for scalable high performance anodes

Samir Boulfrad, Mark Cassidy, [Elisabeth Djurado](#), John Irvine et Ghassan Jabbour

International Journal of Hydrogen Energy, **38**(22), (2013), pp. 9519-9524 [\[DOI: 10.1016/j.ijhydene.2012.12.001\]](#)

2013 - ACL-389

Economic impact of performances degradation on the competitiveness of energy storage technologies - Part 2: Application on an example of PV production guarantee

[Benjamin Guinot](#), [Yann Bultel](#), Florent Montignac, Delphine Riu et I. Noirot-Le Borgne

International Journal of Hydrogen Energy, **38**(31), (2013), pp. 13702-13716 [\[DOI: 10.1016/j.ijhydene.2013.08.023\]](#)

2013 - ACL-390

Economic impact of performances degradation on the competitiveness of energy storage technologies-Part 1: Introduction to the simulation-optimization platform ODYSSEY and elements of validation on a PV-hydrogen hybrid system

[Benjamin Guinot](#), [Yann Bultel](#), Florent Montignac, Delphine Riu, E. Pinton et I. Noirot-Le Borgne

International Journal of Hydrogen Energy, **38**(35), (2013), pp. 15219-15232 [\[DOI: 10.1016/j.ijhydene.2013.08.125\]](#)

2013 - ACL-391

Thin films of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_{3.6}$ dip-coated on Fe-Cr alloys for SOFC metallic interconnect

[Leandro da Conceicao](#), [Laurent Dessemond](#), [Elisabeth Djurado](#) et Mariana Souza

International Journal of Hydrogen Energy, **38**(35), (2013), pp. 15335-15347 [\[DOI: 10.1016/j.ijhydene.2013.09.048\]](#)

2013 - ACL-392

Microstructural and electrical characterizations of tungsten-doped $\text{La}_2\text{Mo}_2\text{O}_9$ prepared by spray pyrolysis

Laura Baqué, Jésus Vega-Castillo, [Samuel Georges](#), Alberto Caneiro et [Elisabeth Djurado](#)

Ionics, **19**(12), (2013), pp. 1761-1774 [\[DOI: 10.1007/s11581-013-0912-3\]](#)

2013 - ACL-393

Effects of organic additives on zinc electrodeposition from alkaline electrolytes

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

Journal of Applied Electrochemistry, **43**(3), (2013), pp. 289-300 [\[DOI : 10.1007/s10800-012-0518-x\]](https://doi.org/10.1007/s10800-012-0518-x)

2013 - ACL-394

Spatial distribution of the electrical conductivity in highly filled polymers: Experiment, modeling, and application to bipolar plates

[Emilie Planes](#), [François Gloaguen](#), [Nicole Albérola](#) et [Lionel Flandin](#)

Journal of Applied Physics, **114**(22), (2013), [11 pages] [\[DOI : 10.1063/1.4841155\]](https://doi.org/10.1063/1.4841155)

2013 - ACL-395

Optical density as a probe of carbon nanotubes dispersion in polymers

Anthony Combessis, Christelle Mazel, Melek Maugin et [Lionel Flandin](#)

Journal of Applied Polymer Science, **130**(3), (2013), pp. 1778-1786 [\[DOI : 10.1002/app.39333\]](https://doi.org/10.1002/app.39333)

2013 - ACL-396

A Faradaic impedance study of E-EAR reaction

Maria Concha, [Marian Chatenet](#), [Claude Montella](#) et [Jean-Paul Diard](#)

Journal of Electroanalytical Chemistry, **696**, (2013), pp. 24-37 [\[DOI : 10.1016/j.jelechem.2013.02.013\]](https://doi.org/10.1016/j.jelechem.2013.02.013)

2013 - ACL-397

Re-examination of steady-state concentration profile near a uniformly accessible rotating disk electrode

[Jean-Paul Diard](#) et [Claude Montella](#)

Journal of Electroanalytical Chemistry, **703**, (2013), pp. 52-55 [\[DOI : 10.1016/j.jelechem.2013.05.014\]](https://doi.org/10.1016/j.jelechem.2013.05.014)

2013 - ACL-398

Infrared and thermal behaviour of proton exchange membrane (PEM) after cationic contamination

[Eddy Moukheiber](#), [Corine Bas](#), [Nicole Albérola](#) et [Lionel Flandin](#)

Journal of Membrane Science, **431**, (2013), pp. 105-112 [\[DOI : 10.1016/j.memsci.2012.12.024\]](https://doi.org/10.1016/j.memsci.2012.12.024)

2013 - ACL-399

High-Temperature Ionic-Conducting Material: Advanced Structure and Improved Performance

Dominique Langevin, Quang Nguyen, Stéphane Marais, Sema Karademir, [Jean-Yves Sanchez](#), [Cristina Iojoiu](#), Mathieu Martinez, [Régis Mercier](#), Patrick Judeinstein et Corinne Chappey

Journal of Physical Chemistry C, **117**(30), (2013), pp. 15552-15561 [\[DOI : 10.1021/jp312575m\]](https://doi.org/10.1021/jp312575m)

2013 - ACL-400

Fullerene-based processable polymers as plausible acceptors in photovoltaic applications

[Lara Perrin](#), [Ali Nouridine](#), [Emilie Planes](#), Christian Carrot, [Nicole Albérola](#) et [Lionel](#)

Flandin

Journal of Polymer Science Part B: Polymer Physics, **51**(4), (2013), pp. 291-302 [\[DOI : 10.1002/polb.23206\]](#)

2013 - ACL-401

Effect of biaxial orientation on dielectric and breakdown properties of poly(ethylene terephthalate)/poly(vinylidene fluoride-co-tetrafluoroethylene) multilayer films
Joel Carr, Matthew Mackey, [Lionel Flandin](#), Donald Schuele, Lei Zhu et Eric Baer
Journal of Polymer Science Part B: Polymer Physics, **51**(11), (2013), pp. 882-896 [\[DOI : 10.1002/polb.23277\]](#)

2013 - ACL-402

Ba-substituted LSCM anodes for solid oxide fuel cells
Elisa Lay, [Laurent Dessemond](#) et Gilles Gauthier
Journal of Power Sources, **221**, (2013), pp. 149-156 [\[DOI : 10.1016/j.jpowsour.2012.07.126\]](#)

2013 - ACL-403

Carbon-supported nickel-doped manganese oxides as electrocatalysts for the oxygen reduction reaction in the presence of sodium borohydride
Amanda Garcia, Fabio Lima, Edson Ticianelli et [Marian Chatenet](#)
Journal of Power Sources, **222**, (2013), pp. 305-312 [\[DOI : 10.1016/j.jpowsour.2012.08.049\]](#)

2013 - ACL-404

Development of an oxygen-evolution electrode from 316L stainless steel: Application to the oxygen evolution reaction in aqueous lithium-air batteries
Florian Moureaux, Philippe Stevens, Gwenaëlle Toussaint et [Marian Chatenet](#)
Journal of Power Sources, **229**, (2013), pp. 123-132 [\[DOI : 10.1016/j.jpowsour.2012.11.133\]](#)

2013 - ACL-405

Carbon corrosion and platinum nanoparticles ripening under open circuit potential conditions
[Zuzhen Zhao](#), [Luis Castanheira](#), [Laetitia Dubau](#), Grégory Berthomé, Alexandre Crisci et [Frédéric Maillard](#)
Journal of Power Sources, **230**, (2013), pp. 236-243 [\[DOI : 10.1016/j.jpowsour.2012.12.053\]](#)

2013 - ACL-406

Safe and performant electrolytes for supercapacitor. Investigation of esters/carbonate mixtures
Emmanuelle Perricone, [Mohamad Chamas](#), [Jean-Claude Leprêtre](#), Patrick Judeinstein, P. Azais, E. Raymundo-Pinero, F. Beguin et [Fannie Alloin](#)
Journal of Power Sources, **239**, (2013), pp. 217-224 [\[DOI : 10.1016/j.jpowsour.2013.03.123\]](#)

2013 - ACL-407

Efficient Pt/carbon electrocatalysts for proton exchange membrane fuel cells: Avoid chloride-based Pt salts!

Nathalie Job, [Marian Chatenet](#), Sandrine Berthon-Fabry, Sophie Hermans et [Frédéric Maillard](#)

Journal of Power Sources, **240**, (2013), pp. 294-305 [\[DOI: 10.1016/j.jpowsour.2013.03.188\]](#)

2013 - ACL-408

La_{0.7}Sr_{0.3}MnO₃-coated SS444 alloy by dip-coating process for metallic interconnect supported Solid Oxide Fuel Cells

[Leandro da Conceicao](#), [Laurent Dessemond](#), [Elisabeth Djurado](#) et Mariana Souza

Journal of Power Sources, **241**, (2013), pp. 159-167 [\[DOI: 10.1016/j.jpowsour.2013.04.082\]](#)

2013 - ACL-409

Sensitization of ZnO nanowire arrays with CuIn₂ for extremely thin absorber solar cells

Sylvia Sanchez, Dmitry Aldakov, [Denis Rouchon](#), Laetitia Rapenne, Alexandru Delamoreanu, Claude Lévy-Clément et Valentina Ivanova

Journal of Renewable and Sustainable Energy, **5**(1), (2013), pp. 11207-11207 [\[DOI: 10.1063/1.4791780\]](#)

2013 - ACL-410

Molten salt flux synthesis and crystal structure of a new open-framework uranyl phosphate Cs₃(UO₂)₂(PO₄)O₂: Spectroscopic characterization and cationic mobility studies

Saïd Yagoubi, C. Renard, Francis Abraham et [Saïd Obbade](#)

Journal of Solid State Chemistry, **200**, (2013), pp. 13-21 [\[DOI: 10.1016/j.jssc.2013.01.013\]](#)

2013 - ACL-411

Potential Response of Lead Dioxide/Lead(II) Galvanostatic Cycling in Methanesulfonic Acid: A Morphologico-Kinetics Interpretation

[Alexandre Oury](#), Angel Kirchev et [Yann Bultel](#)

Journal of the Electrochemical Society, **160**(1), (2013), pp. A148-A154 [\[DOI: 10.1149/2.025302jes\]](#)

2013 - ACL-412

The Impact of Experimental Factors on Oxygen Semi-Permeation Measurements

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

Journal of the Electrochemical Society, **160**(1), (2013), pp. F60-F68 [\[DOI: 10.1149/2.068301jes\]](#)

2013 - ACL-413

Revisiting TEGDME/DIOX Binary Electrolytes for Lithium/Sulfur Batteries: Importance of Solvation Ability and Additives

Céline Barchasz, [Jean-Claude Leprêtre](#), Sébastien Patoux et [Fannie Alloin](#)

Journal of the Electrochemical Society, **160**(3), (2013), pp. A430-A436 [\[DOI: 10.1149/2.022303jes\]](#)

2013 - ACL-414

The Interest of Diazonium Chemistry for Aqueous Lithium-Ion Battery

[Fannie Alloin](#), Lauréline Crepel, [Laure Cointeaux](#), [Jean-Claude Leprêtre](#), F. Fusalba et Sébastien Martinet

Journal of the Electrochemical Society, **160**(5), (2013), pp. A3171-A3178 [\[DOI: 10.1149/2.026305jes\]](#)

2013 - ACL-415

Synthesis and sintering of Gd-doped CeO₂ nanopowders prepared by ultrasonic spray pyrolysis

[Celso Goulart](#) et [Elisabeth Djurado](#)

Journal of the European Ceramic Society, **33**(4), (2013), pp. 769-778 [\[DOI: 10.1016/j.jeurceramsoc.2012.09.029\]](#)

2013 - ACL-416

Low temperature synthesis of ultrafine non vermicular alpha-alumina from aerosol decomposition of aluminum nitrates salts

Yann Aman, [Cécile Rossignol](#), Vincent Garnier et [Elisabeth Djurado](#)

Journal of the European Ceramic Society, **33**(10), (2013), pp. 1917-1928 [\[DOI: 10.1016/j.jeurceramsoc.2013.01.035\]](#)

2013 - ACL-417

From conventional ac flash-sintering of YSZ to hyper-flash and double flash

[Marlu César Steil](#), [Daniel Marinha](#), Yann Aman, Jonas Gomes et [Michel Kleitz](#)

Journal of the European Ceramic Society, **33**(11), (2013), pp. 2093-2101 [\[DOI: 10.1016/j.jeurceramsoc.2013.03.019\]](#)

2013 - ACL-418

Effect of Interfaces on the Melting of PEO Confined in Triblock PS-b-PEO-b-PS Copolymers

Emmanuel Beaudoin, Trang Phan, Michaël Robinet, Renaud Denoyel, Patrick Davidson, Denis Bertin et [Renaud Bouchet](#)

Langmuir, **29**(34), (2013), pp. 10874-10880 [\[DOI: 10.1021/la401889h\]](#)

2013 - ACL-419

Molecular Dynamics Study of Carbon Dioxide Sorption and Plasticization at the Interface of a Glassy Polymer Membrane

[Sylvie Neyertz](#) et [David Brown](#)

Macromolecules, **46**(6), (2013), pp. 2433-2449 [\[DOI: 10.1021/ma302073u\]](#)

2013 - ACL-420

Ba-Doped Iron Oxide as a New Material for NO₂ Detection

[Christian Lopez](#), Chiara Baroni et Jean-Marc Tulliani

Materials, **6**(10), (2013), pp. 4801-4816 [\[DOI: 10.3390/ma6104801\]](#)

2013 - ACL-421

Effect of Carbon Dioxide and Temperature on Passive Film Parameters of Superduplex Stainless Steel

Emandro da Costa, Thiago Mesquita, Ariane Ferreira, Ricardo Nogueira et Ivan Bastos
Materials Research - Ibero-American Journal of Materials, **16**(4), (2013), pp. 929-936 [\[DOI : 10.1590/S1516-14392013005000088\]](https://doi.org/10.1590/S1516-14392013005000088)

2013 - ACL-422

Influence of gate leakage current on AlGaN/GaN HEMTs evidenced by low frequency noise and pulsed electrical measurements

S. Karboyan, J. Tartarin, M. Rzin, L. Brunel, A. Curutchet, N. Malbert, N. Labat, D. Carisetti, B. Lambert, Michel Mermoux, Eddy Romain-Latu, Fabien Thomas, C. Bouexiere et C. Moreau

Microelectronics Reliability, **53**(9-11), (2013), pp. 1491-1495 [\[DOI : 10.1016/j.microrel.2013.07.020\]](https://doi.org/10.1016/j.microrel.2013.07.020)

2013 - ACL-423

Single-ion BAB triblock copolymers as highly efficient electrolytes for lithium-metal batteries

Renaud Bouchet, Sébastien Maria, Rachid Meziane, Abdelmaula Aboulaich, Livie Liénafa, J. Bonnet, Trang Phan, Denis Bertin, Didier Gignes, Didier Devaux, Renaud Denoyel et Michel Armand

Nature Materials, **12**(5), (2013), pp. 452-457 [\[DOI : 10.1038/NMAT3602\]](https://doi.org/10.1038/NMAT3602)

2013 - ACL-424

Potentialities of Raman Imaging for the Analysis of Oxide Scales Formed on Zircaloy-4 and M5(A (R)) in Air at High Temperature

Isabel Idarraga, Michel Mermoux, C. Duriez, Alexandre Crisci et J. Mardon

Oxidation of Metals, **79**(3-4), (2013), pp. 289-302 [\[DOI : 10.1007/s11085-012-9331-5\]](https://doi.org/10.1007/s11085-012-9331-5)

2013 - ACL-425

Structure and transport properties of polyethylene terephthalate and poly(vinylidene fluoride-co-tetrafluoroethylene) multilayer films

Joel Carr, Matthew Mackey, Lionel Flandin, Anne Hiltner et Eric Baer

Polymer, **54**(6), (2013), pp. 1679-1690 [\[DOI : 10.1016/j.polymer.2013.01.037\]](https://doi.org/10.1016/j.polymer.2013.01.037)

2013 - ACL-426

Unusual process-induced curl and shrinkage of electrospun PVDF membranes

B. Sundaray, Frédéric Bossard, P. Latil, L. Orgeas, Jean-Yves Sanchez et Jean-Claude Leprêtre

Polymer, **54**(17), (2013), pp. 4588-4593 [\[DOI : 10.1016/j.polymer.2013.05.049\]](https://doi.org/10.1016/j.polymer.2013.05.049)

2013 - ACL-427

Influence of Mo alloying on pitting corrosion of stainless steels used as concrete reinforcement

Thiago Mesquita, Edouard Chauveau, Marc Mantel, Nicole Kinsman et Ricardo

Nogueira

Rem-revista Escola de Minas, **66**(2), (2013), pp. 173-178

2013 - ACL-428

A portable transfer chamber for electrochemical measurements on electrodes prepared in ultra-high vacuum

Mohammad El Jawad, Jean-Louis Chemin, Bruno Gilles et **Frédéric Maillard**
Review of Scientific Instruments, **84**(6), (2013), [6 pages] [\[DOI : 10.1063/1.4809936\]](https://doi.org/10.1063/1.4809936)

2013 - ACL-429

Realization and characterization of thin single crystal Ge films on sapphire

Y. Bogumilowicz, Alexandra Abbadie, V. Klinger, L. Benaissa, P. Gergaud, **Denis Rouchon**, C. Maurois, C. Lecouvey, N. Blanc, C. Charles-Alfred, A. Drouin, B. Ghyselen, A. Wekkeli, F. Dimroth et V. Carron

Semiconductor Science and Technology, **28**(3), (2013), [8 pages] [\[DOI : 10.1088/0268-1242/28/3/035013\]](https://doi.org/10.1088/0268-1242/28/3/035013)

2013 - ACL-430

Removal of copper, zinc and nickel present in natural water containing Ca^{2+} and HCO_3^- ions by electrocoagulation

A. de Mello Ferreira, Marc Marchesiello et **Pierre-Xavier Thivel**
Separation and Purification Technology, **107**, (2013), pp. 109-117 [\[DOI : 10.1016/j.seppur.2013.01.016\]](https://doi.org/10.1016/j.seppur.2013.01.016)

2013 - ACL-431

Gas barrier properties of solution processed composite multilayer structures for organic solar cells encapsulation

Arnaud Morlier, Stéphane Cros, Jean-Paul Garandet et **Nicole Albérola**
Solar Energy Materials and Solar Cells, **115**, (2013), pp. 93-99 [\[DOI : 10.1016/j.solmat.2013.03.033\]](https://doi.org/10.1016/j.solmat.2013.03.033)

2013 - ACL-432

Interface stability of thin, dense CGO film coating on YSZ for solid oxide fuel cells

Guillaume Constantin, **Cécile Rossignol**, Jean-Paul Barnes et **Elisabeth Djurado**
Solid State Ionics, **235**, (2013), pp. 36-41 [\[DOI : 10.1016/j.ssi.2013.01.015\]](https://doi.org/10.1016/j.ssi.2013.01.015)

2013 - ACL-433

Electrochemical and Raman study of $\text{La}_{0.7}\text{Sr}_{0.3}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ reduction

Elisabeth Siebert, Antoinette Boréave, François Gaillard et **Thierry Pagnier**
Solid State Ionics, **247**, (2013), pp. 30-40 [\[DOI : 10.1016/j.ssi.2013.05.006\]](https://doi.org/10.1016/j.ssi.2013.05.006)

2013 - ACL-434

Efficiency of a dense thin CGO buffer layer for solid oxide fuel cell operating at intermediate temperature

Guillaume Constantin, **Cécile Rossignol**, Pascal Briois, Alain Billard, **Laurent Dessemond** et **Elisabeth Djurado**
Solid State Ionics, **249**, (2013), pp. 98-104 [\[DOI : 10.1016/j.ssi.2013.07.004\]](https://doi.org/10.1016/j.ssi.2013.07.004)