

2012 - INVI-038

Innovative researches performed in Grenoble for aeronautics applications

[Eric Chaînet](#)

Fact finding mission of European researchers to Mexico in the field of aeronautics program organized by the bureau for Mexico-European Union Science, Technology and Innovation Cooperation (UEMEXCYT2) of the CONACYT, 30 janv-02 févr 2012, Mexico (Mexique)

2012 - INVI-039

Kirkendall effect-induced formation of Pt "hollow" particles from Pt₃Co/C nanoparticles in real PEFC conditions

[Frédéric Maillard](#), [Laetitia Dubau](#), [Julien Durst](#), [Marian Chatenet](#), Laure Guétaz, Johan André, Nicolas Caqué et Elisabeth Rossinot

243rd ACS National Meeting, 25-29 mars 2012, San Diego, Californie (États-Unis)

2012 - INVI-040

Use of IR and Raman microscopy to characterize the encapsulation system of flexible photovoltaic panel during an accelerated aging

[Emilie Planes](#), E. Mancion, J. Penneau, M. Van Iseghem, Bernard Yrieix et [Lionel Flandin](#)

Polymers in Photovoltaics 2012, 24-26 avr 2012, Cologne (Allemagne)

2012 - INVI-041

Modeling and optimization of Hydrogen production by the photosynthetic bacterium Rhodospirillum rubrum by the methodology of Design of Experiments (DOE)

Patricia Castillo, [Jean-Pierre Magnin](#), Mario Velasquez et John Willison

19th World Hydrogen Energy Conference, 03-07 juin 2012, Toronto (Canada)

2012 - INVI-042

Molecular modelling in dense polymers

[Sylvie Neyertz](#)

29th EMS Summer School on Membranes, 10-13 juil 2012, Nancy (France)

2012 - INVI-043

Effect of fluorinated moieties on the performances of fuel cell proton-conducting polymer

[Cristina Iojoiu](#), [Luca Assumma](#), Gulsen Albayrak Ari, [Régis Mercier](#) et [Jean-Yves Sanchez](#)

8th Japanese-French Joint Seminar on Fluorine Chemistry, 19-21 juil 2012, Kyoto (Japon)

2012 - INVI-044

Carbon dioxide sorption and plasticization in glassy polymers studied at the molecular level

[Sylvie Neyertz](#)

Membranes: Materials & Processes Gordon Research Conference, 29 juil-03 août 2012, New London, New Hampshire (États-Unis)

2012 - INVI-045

From Composite Membranes to New Ionomers for PEMFC

[Jean-Yves Sanchez](#), [Houssemeddine Ben Attia](#), [Luca Assumma](#), [Laure Cointeaux](#),
[Cristina Iojoiu](#), [Jean-Claude Leprêtre](#) et [Régis Mercier](#)

21st International Materials Research Congress, 3. Materials for Energy production,
12-17 août 2012, Cancun (Mexique)

2012 - INVI-046

Durability of bimetallic alloys in PEMCs: Advances and controversies

[Frédéric Maillard](#), [Laetitia Dubau](#), [Julien Durst](#), [Marian Chatenet](#), Johan André et
Elisabeth Rossinot

63rd Annual Meeting of the International Society of Electrochemistry, Symposium 5:
Fuel Cells: Materials, Properties, Performance and Durability, 19-24 août 2012,
Prague (République Tchèque)

2012 - INVI-047

Non-conventional fabrication of nanostructured cathode: effects on the electrical
properties for IT-SOFCs

[Elisabeth Djurado](#)

1st International Workshop on Nano Materials for Energy Conversion and Fuel Cell,
20-22 août 2012, Ho Chi Minh Ville (Viet Nam)

2012 - INVI-048

Raman spectroscopy : a tool for understanding bulk and surface properties of
nanocrystalline oxides

[Thierry Pagnier](#)

1st International Workshop on Nano Materials for Energy Conversion and Fuel Cell,
20-22 août 2012, Ho Chi Minh Ville (Viet Nam)

2012 - INVI-049

Raman spectroscopy: Study of adsorbed species and use of multiwavelength for
nanomaterials characterization

[Bernadette Saubat](#) et [Nicolas Sergent](#)

1st International Workshop on Nano Materials for Energy Conversion and Fuel Cell,
20-22 août 2012, Ho Chi Minh Ville (Viet Nam)

2012 - INVI-050

From molecular chemistry to high performance electrolytes for lithium batteries and
proton exchange membrane fuel cells

[Cristina Iojoiu](#), [Jean-Yves Sanchez](#), [Fannie Alloin](#), [Jean-Claude Leprêtre](#) et [Jacques
Guindet](#)

13th International Symposium on Polymer Electrolytes, 26-31 août 2012, Selfoss
(Islande)

2012 - INVI-051

Mechanical and corrosion properties of Fe-Cr-Nb-B amorphous alloys coatings
Walter Botta, G. Koga, A. Melle, [Virginie Roche](#), [Ricardo Nogueira](#), C. Afonso, C. Bolfarini et Claudio Kiminami

11th International Conference on Nanostructured Materials, 26-31 août 2012, Rhodes (Grèce)

2012 - INVI-052

Nano-organisation in organic photovoltaic solar cells: synthesis and study of new C60-polythiophene copolymers

[Lara Perrin](#), Mathilde Legros, Rémi de Bettignies, Stéphane Guillerez et [Régis Mercier](#)

11th International Conference on Nanostructured Materials, 26-31 août 2012, Rhodes (Grèce)

2012 - INVI-053

Study of NH₃BH₃ oxidation reaction on gold electrodes by in situ Fourier Transform InfraRed Spectroscopy and Differential Electrochemical Mass Spectrometry

[Maria Molina Concha](#), [Marian Chatenet](#), Fabio Lima et Edson Ticianelli

13th International Conference Advanced Batteries, Accumulators and Fuel Cells, 26-30 août 2012, Brno (République Tchèque)

2012 - INVI-054

Polymers for Lithium batteries: from Structural Materials to Multifunctional ones

[Jean-Yves Sanchez](#), [Marco Bolloli](#), [Yannick Molmeret](#), [Thibault Godet-Bar](#), [Fannie Alloin](#) et [Cristina Iojoiu](#)

9th Japan-France Joint Seminar on Lithium Ion Batteries, 10-10 sept 2012, Paris (France)

2012 - INVI-055

Durability of Pt₃Co/C Cathode Electrocatalyst during Long-term Real PEMFC Operation

[Laetitia Dubau](#), [Julien Durst](#), [Frédéric Maillard](#), Laure Guétaz, [Marian Chatenet](#), Johan André et Elisabeth Rossinot

International workshop on characterization and quantification of MEA degradation processes, 26-27 sept 2012, Grenoble (France)

2012 - INVI-056

Formation of Pt Hollow Nanoparticles in PEMFC Through the Nanoscale Kirkendall Effect

[Frédéric Maillard](#), [Laetitia Dubau](#), [Julien Durst](#), [Marian Chatenet](#), Johan André et Elisabeth Rossinot

International Symposium on Electrocatalysis, 04-07 nov 2012, Maragogi, Alagoas (Brésil)

2012 - INVI-057

Study of NH₃BH₃ electrooxidation reaction on gold electrodes by in situ Fourier Transform InfraRed Spectroscopy and on-line Differential Electrochemical Mass Spectrometry

Maria Molina Concha, [Marian Chatenet](#), Fabio Lima et Edson Ticianelli
International Symposium on Electrocatalysis, 04-07 nov 2012, Maragogi, Alagoas
(Brésil)

2012 - INVI-058

Carbon Corrosion in Low Temperature Fuel Cells: From the Reaction Mechanism to
the Structural Consequences

[Frédéric Maillard](#), Luis Castanheira, Zuzhen Zhao et Laetitia Dubau

5th ISEAC Triennial International Conference on Advances and Recent Trends in
Electrochemistry, 16-20 janv 2013, Hyderabad (Inde)

2012 - INVI-059

Local oxygen activity measurements using microsensors

[Jacques Fouletier](#), Marlu César Steil et P. Geffroy

International Workshop of Ionically Conducting Ceramics for Catalysis, 06-08 sept
2013, Lyon (France)

2012 - INVN-011

Diagnostic de piles à combustible par mesure du champ magnétique proche

Mathieu Le Ny, Olivier Chadebec, Gilles Cauffet, Jean-Marc Dedulle, [Yann Bultel](#),
Sébastien Rosini et Yannick Fourneron

7^{ème} Conférence Européenne sur les Méthodes Numériques en Electromagnétisme,
03-05 juil 2012, Marseille (France)