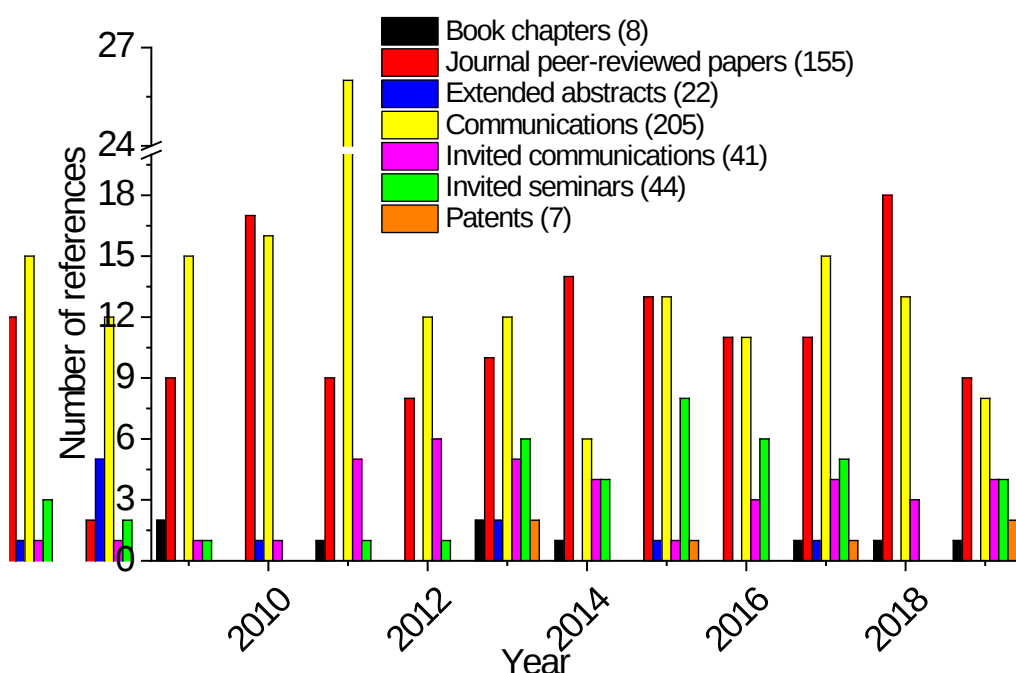


Bibliography for Marian Chatenet on November 20th 2019 (Scopus)

- « h-factor » = 44
- Total citations : 5406
- ORCID : 0000-0002-9673-4775 (orcid.org/0000-0002-9673-4775)

- 8 book chapters
- 155 publications in peer-reviewed journals
- 7 patents
- 22 extended abstracts (16 reviewed on full text and 6 on abstract)
- 196 communications in international conference with acts (40 invited)
- 9 communications in national conference with acts (1 invited)
- 44 invited seminars



Book chapters

- Ch-1** M. Chatenet, in *L'ultramicroélectrode à cavité (UMEC) en électrocatalyse – principe, exemples et difficultés expérimentales*, Microélectrode à cavité : principe, développement et applications pour l'étude de la réactivité de matériaux insolubles, V. Vivier Ed., Publications de l'Université de Saint-Etienne, Saint-Etienne (2009) pp. 75-96
- Ch-2** M. Chatenet, L. Guétaz, F. Maillard, in *Electron Microscopy to Study MEA Materials and Structure Degradation*, Handbook of Fuel Cells –Vol. 6, H. A. Gasteiger, W. Vielstich and H. Yokokawa Eds., John Wiley & Sons, Chichester (2009) pp. 844-860
- Ch-3** M. Chatenet, B. Molina Concha, G. Parrou, C. Montella, J.-P. Diard, F. H. B. Lima, E. A. Ticianelli, in *Potential and limitation of the Direct Borohydride Fuel Cell. Special emphasis on the Borohydride Oxidation Reaction (BOR) mechanism and kinetics on gold electrocatalysts*, Boron hydrides, high potential hydrogen storage materials, U. Demirci Ed., Nova Science, New York (2011) pp. 103-136

- Ch-4** N. Job, **M. Chatenet**, F. Maillard, in *Basics of PEMFC including the use of carbon-supported nanoparticles*, New and future developments in catalysis: Catalysis by nanoparticles, S. L. Suib Ed., Elsevier B. V., Amsterdam chapter 17 (2013) 401-423.
- Ch-5** N. Job, **M. Chatenet**, F. Maillard, in *Approaches to Synthesize Carbon-Supported Platinum-Based Electrocatalysts for Proton-Exchange Membrane Fuel Cells*, New and future developments in catalysis: Batteries, hydrogen, storage and fuel cells, S. L. Suib Ed., Elsevier B. V., Amsterdam, chapter 14 (2013) pp. 407-428.
- Ch-6** J. C. Rooke, R. Sescousse, T. Budtova, S. Berthon-Fabry, B. Simon, **M. Chatenet**, in *Cellulose-based nanostructured carbons for energy conversion and storage devices*, Green Carbon Materials, T. Rufford, D. Hulicova-Jurcakova, J. Zhu Eds., Pan Stanford Publishing Ltd, Singapore (2014) pp. 115-145.
- Ch-7** P.-Y. Olu, A. Zadick, N. Job, **M. Chatenet**, in *Catalysts for direct borohydride and ammonia borane fuel cells*, Fuel Cell - Electrocatalysis, T. Maiyalagan & Viswanathan S. Saji Ed., Wiley-VCH, New York, chapter 10 (2017) pp. 317-346.
- Ch-8** P.-Y. Olu, A. Bonnefont, **M. Chatenet**, in *Borohydride Oxidation Reaction (BOR) at Pt and Au Electrodes: From Experimental Insights to Mechanism and Kinetic Modeling*, Encyclopedia of Interfacial Chemistry: Surface Science and Electrochemistry, K. Wandelt editor, Elsevier, published 1st April 2018, 2550 pages.

Papers in peer-reviewed journals

- P-1** **M. Chatenet**, M. Aurousseau, R. Durand, Electrochemical measurement of the oxygen diffusivity and solubility in concentrated alkaline media on rotating ring-disk and disk electrodes - application to industrial chlorine-soda electrolyte
Electrochim. Acta **45** (2000) 2823-2827; [http://dx.doi.org/10.1016/S0013-4686\(00\)00325-X](http://dx.doi.org/10.1016/S0013-4686(00)00325-X)
- P-2** **M. Chatenet**, M. Aurousseau, R. Durand, Comparative methods for gas diffusivity and solubility determination in extreme media - Application to molecular oxygen in industrial chlorine-soda electrolyte
Ind. Eng. Chem. Res. **39** (2000) 3083-3089; <http://dx.doi.org/10.1021/ie000044g>
- P-3** **M. Chatenet**, L. Geniès-Bultel, M. Aurousseau, R. Durand, F. Andolfatto, Oxygen reduction on silver catalysts in solutions containing various concentrations of sodium hydroxide - comparison with platinum
J. Appl. Electrochem. **32** (2002) 1131-1140; <http://dx.doi.org/10.1023/A:1021231503922>
- P-4** **M. Chatenet**, M. Aurousseau, R. Durand, F. Andolfatto, Silver-platinum bimetallic catalysts for oxygen cathodes in chlor-alkali electrolysis – comparison with pure platinum
J. Electrochem. Soc. **150** (2003) D47-D55; <http://dx.doi.org/10.1149/1.1540063>
- P-5** J. Marie, S. Berthon, P. Achard, **M. Chatenet**, A. Pradourat, E. Chainet, Highly dispersed platinum on carbon-aerogels as electrocatalysts for PEM fuel cell electrodes: comparison of two different synthesis paths
J. Non-Cryst. Solids **350C** (2004) 88-96; <http://dx.doi.org/10.1016/j.jnoncrysol.2004.06.038>
- P-6** **M. Chatenet**, R. Faure, Y. Soldo-Olivier, Nickel-underpotential deposition on Pt(110) in sulfate-containing media
J. Electroanal. Chem. **580** (2005) 275-283; <http://dx.doi.org/10.1016/j.jelechem.2005.03.037>
- P-7** J. Vondrák, B. Klápště, J. Velická, M. Sedlářiková, J. Reiter, I. Roche, E. Chainet, J. F. Fauvarque, **M. Chatenet**, Electrochemical activity of manganese oxide/carbon based electrocatalyst – comparison with platinum/carbon electrocatalysts
J. New Mat. Electrochem. Sys. **8** (2005) 209-212

- P-8** J. Bernard, M. Boinet, **M. Chatenet**, F. Dalard, Contribution of the acoustic emission technique to study aluminium behaviour in aqueous alkaline solution
Electrochim. Solid State Lett. **8** (2005) E53-E55; <http://dx.doi.org/10.1149/1.1923427>
- P-9** J. Marie, S. Berthon-Fabry, P. Achard, **M. Chatenet**, E. Chainet, R. Pirard, N. Cornet, Synthesis of Highly Porous Catalytic Layers for Polymer Electrolyte Fuel Cell Based on Carbon Aerogels
ECS Trans. **1** (2006) 509-519; <http://dx.doi.org/10.1149/1.2214521>
- P-10** **M. Chatenet**, F. Micoud, I. Roche, E. Chainet, Kinetics of sodium borohydride direct oxidation and oxygen reduction in sodium hydroxide electrolyte – Part I: BH_4^- electro-oxidation on Au and Ag electrocatalysts
Electrochim. Acta **51** (2006) 5459-5467; <http://dx.doi.org/10.1016/j.electacta.2006.02.015>
- P-11** **M. Chatenet**, F. Micoud, I. Roche, E. Chainet, J. Vondrak, Kinetics of sodium borohydride direct oxidation and oxygen reduction in sodium hydroxide electrolyte – Part II: O_2 reduction
Electrochim. Acta **51** (2006) 5452-5458; <http://dx.doi.org/10.1016/j.electacta.2006.02.014>
- P-12** J. Bernard, **M. Chatenet**, F. Dalard, Understanding aluminum behaviour in aqueous alkaline solution using coupled techniques – Part I: rotating ring-disk study
Electrochim. Acta **52** (2006) 86-93; <http://dx.doi.org/10.1016/j.electacta.2006.03.76>
- P-13** J. Marie, S. Berthon-Fabry, P. Achard, **M. Chatenet**, E. Chainet, N. Cornet, Platinum supported on resorcinol-formaldehyde based carbon aerogels for PEMFC electrodes: influence of the carbon support on electrocatalytic properties
J. Appl. Electrochem. **37** (2007) 147-163; <http://dx.doi.org/10.1007/s10800-006-9226-8>
- P-14** **M. Chatenet**, Y. Soldo-Olivier, E. Chainet, R. Faure, Electrochemical quartz crystal microbalance determination of nickel formal partial charge number during nickel-underpotential deposition on platinum in sulphate media
Electrochim. Commun. **9** (2007) 1463-1468; <http://dx.doi.org/10.1016/j.elecom.2007.02.001>
- P-15** E. Guilminot, A. Corcella, **M. Chatenet**, F. Maillard, Comparing the thin-film rotating disk electrode and the cavity microelectrode techniques to study carbon-supported platinum for PEMFC applications
J. Electroanal. Chem. **599** (2007) 111-120; <http://dx.doi.org/10.1016/j.jelechem.2006.09.022>
- P-16** F. Maillard, E. Peyrelade, Y. Soldo-Olivier, **M. Chatenet**, E. Chaînet, R. Faure, Is carbon-supported Pt-WO_x composite a CO-tolerant material ?
Electrochim. Acta **52** (2007) 1958-1967; <http://dx.doi.org/10.1016/j.electacta.2006.08.024>
- P-17** E. Guilminot, F. Fisher, **M. Chatenet**, A. Rigacci, S. Berthon-Fabry, E. Chainet, Use of carbon aerogels from cellulose as catalyst support for PEM fuel cell electrodes: Electrochemical Characterization
J. Power sources **166** (2007) 104-111; <http://dx.doi.org/10.1016/j.jpowsour.2006.12.084>
- P-18** I. Roche, E. Chainet, **M. Chatenet**, J. Vondrák, Carbon-supported manganese oxide nanoparticles as electrocatalysts for the oxygen reduction reaction (ORR) in alkaline medium: physical characterizations and ORR mechanism
J. Phys. Chem. C **111** (2007) 1434-1443; <http://dx.doi.org/10.1021/jp0647986>
- P-19** E. Guilminot, A. Corcella, F. Charlot, F. Maillard, **M. Chatenet**, Detection of Pt^{2+} ions and Pt nanoparticles into the membrane of a PEM fuel cell
J. Electrochem. Soc. **154** (2007) B96-B105; <http://dx.doi.org/10.1149/1.2388863>

- P-20 M. Chatenet**, Y. Soldo-Olivier, E. Chaînet, R. Faure, Understanding CO-stripping mechanism from Ni₂PD/Pt(110) in view of the measured nickel formal partial charge number upon underpotential deposition on platinum surfaces in sulphate media (**invited** paper) *Electrochim. Acta* **53** (2007) 369-376; <http://dx.doi.org/10.1016/j.electacta.2007.01.029>
- P-21 M. Chatenet**, E. Guilminot, C. Iojoiu, J.-Y. Sanchez, E. Rossinot, F. Maillard, Pt redistribution within PEMFC MEAs and its consequence on their performances *ECS Trans.* **11** (2007) 1203-1214; <http://dx.doi.org/10.1149/1.2781034>
- P-22 E. Guilminot**, A. Corcella, **M. Chatenet**, F. Maillard, F. Charlot, G. Berthomé, C. Iojoiu, J.-Y. Sanchez, E. Rossinot, E. Claude, Membrane and active layer degradation upon Proton Exchange Membrane Fuel Cell steady-state operation – part I: platinum dissolution and redistribution within the Membrane Electrode Assembly *J. Electrochem. Soc.* **154** (2007) B1106-B1114; <http://dx.doi.org/10.1149/1.2775218>
- P-23 C. Iojoiu**, E. Guilminot, F. Maillard, **M. Chatenet**, J.-Y. Sanchez, E. Claude, E. Rossinot, Membrane and active layer degradation upon Proton Exchange Membrane Fuel Cell steady-state operation – part II: effect of platinum on membrane degradation *J. Electrochem. Soc.* **154** (2007) B1115-B1120; <http://dx.doi.org/10.1149/1.27785282>
- P-24 F. Maillard**, A. Bonnefont, **M. Chatenet**, L. Guétaz, B. Doisneau-Cottignies, H. Roussel, U. Stimming, Effect of the structure of Pt-Ru/C particles on COad monolayer vibrational properties and electrooxidation kinetics *Electrochim. Acta* **53** (2007) 811-822; <http://dx.doi.org/10.1016/j.electacta.2007.07.061>
- P-25 I. Roche**, E. Chainet, **M. Chatenet**, J. Vondrák, Evaluation of the durability of carbon-supported manganese oxide nanoparticles for the oxygen reduction reaction (ORR) in alkaline medium *J. Appl. Electrochem.* **38** (2008) 1195-1201; <http://dx.doi.org/10.1007/s10800-008-9537-z>
- P-26 E. Guilminot**, R. Gavillon, **M. Chatenet**, S. Berthon-Fabry, A. Rigaccic, T. Budtova, New nanostructured carbons based on porous cellulose: elaboration, pyrolysis and subsequent use as substrate for proton exchange membrane fuel cell electrocatalyst particles *J. Power Sources* **185** (2008) 717-726 ; <http://dx.doi.org/10.1016/j.jpowsour.2008.08.030>
- P-27 B. Molina Concha**, **M. Chatenet**, C. Coutanceau, F. Hahn, In situ infrared (FTIR) study of the borohydride oxidation reaction *Electrochem. Commun.* **11** (2009) 223-226; <http://dx.doi.org/10.1016/j.elecom.2008.11.018>
- P-28 M. Chatenet**, M. B. Molina-Concha, J.-P. Diard, First insights into the borohydride oxidation reaction mechanism on gold by electrochemical impedance spectroscopy *Electrochim. Acta* **54** (2009) 1687-1693; <http://dx.doi.org/10.1016/j.electacta.2008.09.060>
- P-29 F. Micoud**, F. Maillard, A. Gourgau, **M. Chatenet**, Unique CO-tolerance of Pt-WO_x materials *Electrochem. Commun.* **11** (2009) 651-654; <http://dx.doi.org/10.1016/j.elecom.2009.01.007>
- P-30 N. Job**, F. Maillard, J. Marie, S. Berthon-Fabry, J.-P. Pirard, **M. Chatenet**, Electrochemical characterization of Pt/carbon xerogel and Pt/carbon aerogel catalysts – first insights into the influence of the carbon texture on the Pt nanoparticles morphology and catalytic activity *J. Mater. Sci.* **44** (2009) 6591-6600; <http://dx.doi.org/10.1007/s10853-009-3581-x>
- P-31 J. Marie**, R. Chenitz, **M. Chatenet**, S. Berthon-Fabry, N. Cornet, P. Achard, Highly Porous PEMFC Cathodes based on Low Density Carbon Aerogels as Pt-support: experimental study of the mass-transport losses *J. Power Sources* **190** (2009) 423-434; <http://dx.doi.org/10.1016/j.jpowsour.2009.01.047>

- P-32** B. Molina Concha, **M. Chatenet**, Direct oxidation of sodium borohydride on Pt, Ag and alloyed Pt-Ag in sodium hydroxide electrolyte. Part I: Bulk electrodes
Electrochim. Acta **54** (2009) 6119-6129; <http://dx.doi.org/10.1016/j.electacta.2009.05.027>
- P-33** B. Molina Concha, **M. Chatenet**, Direct oxidation of sodium borohydride on Pt, Ag and alloyed Pt-Ag in sodium hydroxide electrolyte. Part II: Carbon supported nanoparticle
Electrochim. Acta **54** (2009) 6130-6139; <http://dx.doi.org/10.1016/j.electacta.2009.04.074>
- P-34** **M. Chatenet**, M. B. Molina-Concha, N. El-Kissi, G. Parrou, J.-P. Diard, Direct rotating ring-disk measurement of the sodium borohydride diffusion coefficient in sodium hydroxide solutions
Electrochim. Acta **54** (2009) 4426-4435; <http://dx.doi.org/10.1016/j.electacta.2009.03.019>
- P-35** N. Job S. Berthon-Fabry, **M. Chatenet**, J. Marie, M. Brigaudet, J.-P. Pirard, Nanostructured carbons as catalyst supports: from gas phase catalysis to fuel cell electrodes
Topic Catal. **52** (2009) 2117-2122 ; <http://dx.doi.org/10.1007/s11244-009-9384-0>
- P-36** N. Job, S. Lambert, **M. Chatenet**, C. J. Gommès, F. Maillard, S. Berthon-Fabry, J. R. Regalbuto, J.-P. Pirard, Preparation of highly loaded Pt/carbon xerogel catalysts for Proton Exchange Membrane fuel cells by the Strong Electrostatic Adsorption method (**invited** paper)
Catal. Today **150** (2010) 119–127; <http://dx.doi.org/10.1016/j.cattod.2009.06.022>
- P-37** F. Micoud, F. Maillard, A. Bonnefont, N. Job, **M. Chatenet**, The role of the support in COads monolayer electrooxidation on Pt nanoparticles: Pt/WO_x vs. Pt/C
Phys. Chem. Chem. Phys. **12** (2010) 1182-1193 ; <http://dx.doi.org/10.1039/B915244J>
- P-38** D. Riassetto, F. Roussel, L. Rapenne, H. Roussel, O. Chaix, F. Micoud, **M. Chatenet**, M. Langlet, Synthesis and functionalities of noble metal nanoparticles formed through simplified photo-chemical procedures
J. Experimental Nanosci., First published on: 18 January 2010, *iFirst* **5** (2010) 221–243; <http://dx.doi.org/10.1080/17458080903470725>
- P-39** **M. Chatenet**, F. H. B. Lima, E. A. Ticianelli, Study of the borohydride oxidation reaction on gold in alkaline medium using on-line mass spectrometry
ECS Trans. **25** (2010) 39-48; <http://dx.doi.org/10.1149/1.3315171>
- P-40** **M. Chatenet**, F. H. B. Lima, E. A. Ticianelli, Gold is not a faradaic-efficient borohydride oxidation electrocatalyst - An On-Line Electrochemical Mass Spectrometry (OLEMS) study
J. Electrochem. Soc. **157** (2010) B697-B704; <http://dx.doi.org/10.1149/1.3328179>
- P-41** **M. Chatenet**, L. Dubau, N. Job, F. Maillard, The (electro)catalyst | membrane interface in the Proton Exchange Membrane Fuel Cell: similarities and differences with non-electrochemical Catalytic Membrane Reactors (**invited** paper)
Catal. Today **156** (2010) 76–86; <http://dx.doi.org/10.1016/j.cattod.2010.02.028>
- P-42** M. Boinet, J. Bernard, **M. Chatenet**, F. Dalard, S. Maximovitch, Understanding aluminum behaviour in aqueous alkaline solution using coupled techniques – Part II: acoustic emission study
Electrochim. Acta **55** (2010) 3454-3463 ; <http://dx.doi.org/10.1016/j.electacta.2009.06.038>
- P-43** F. Maillard, L. Dubau, J. Durst, **M. Chatenet**, J. André, E. Rossinot, Durability of Pt₃Co/C nanoparticles in a proton-exchange membrane fuel cell: direct evidence of bulk Co segregation to the surface
Electrochem. Commun. **12** (2010) 1161-1164;
<http://dx.doi.org/10.1016/j.elecom.2010.06.007>

- P-44** B. Molina Concha, **M. Chatenet**, F. Maillard, E. A. Ticianelli, F. H. B. Lima, R. B. de Lima, In situ Infrared (FTIR) study of the mechanism of the borohydride oxidation reaction *Phys. Chem. Chem. Phys.* **12** (2010) 11507-11516; <http://dx.doi.org/10.1039/C003652H>
- P-45** Fabio H. B. Lima, D. Profeti, **M. Chatenet**, D. Riello, E. A. Ticianelli, E. R. Gonzalez, Electro-oxidation of Ethanol on Rh/Pt and Ru/Rh/Pt Sub-monolayers Deposited on Au/C Nanoparticles *Electrocatal.* **1** (2010) 72-82; <http://dx.doi.org/10.1007/s12678-010-0014-1>
- P-46** L. Dubau, F. Maillard, **M. Chatenet**, Laure Guetaz, J. André, E. Rossinot, Durability of Pt₃Co/C cathodes in a 16 cells PEMFC stack: macro/microstructural changes and degradation mechanisms *J. Electrochem. Soc.* **157** (2010) B1887-B1895; <http://dx.doi.org/10.1149/1.3485104>
- P-47** G. Parrou, **M. Chatenet**, J.-P. Diard, Electrochemical Impedance Spectroscopy study of Borohydride Oxidation Reaction on gold – Towards a mechanism with two electrochemical steps *Electrochim. Acta* **55** (2010) 9113–9124; <http://dx.doi.org/10.1016/j.electacta.2010.07.086>
- P-48** K. S. Freitas, M. B. Molina Concha, E. A. Ticianelli, **M. Chatenet**, Borohydride Oxidation on Pt-Based electrodes: Evidence of residence time effect on the reaction onset and faradaic efficiency *ECS Trans.* **33** (2010) 1693-1699; <http://dx.doi.org/10.1149/1.3484659>
- P-49** L. Dubau, J. Durst, F. Maillard, **M. Chatenet**, J. André, E. Rossinot, Influence of PEMFC Operating conditions on the durability of Pt₃Co/C electrocatalysts *ECS Trans.* **33** (2010) 399-405; <http://dx.doi.org/10.1149/1.3484538>
- P-50** L. Dubau, F. Maillard, **M. Chatenet**, J. André, E. Rossinot, Durability of Pt₃Co/C Cathodes in a 16 Cells PEMFC Stack: Degradation mechanisms and modification of the ORR electrocatalytic activity *ECS Trans.* **33** (2010) 407-417; <http://dx.doi.org/10.1149/1.3484539>
- P-51** J. Rooke, C. Matos, **M. Chatenet**, R. Sescousse, T. Budtova, S. Berthon-Fabry, R. Mosdale, F. Maillard, Elaboration and characterizations of platinum nanoparticles supported on cellulose-based carbon aerogel *ECS Trans.* **33** (2010) 447-459; <http://dx.doi.org/10.1149/1.3484543>
- P-52** L. Dubau, F. Maillard, **M. Chatenet**, J. André, E. Rossinot, Nanoscale compositional changes and modification of the surface reactivity of Pt₃Co/C nanoparticles during PEMFC operation *Electrochim. Acta* **56** (2010) 776–783; <http://dx.doi.org/10.1016/j.electacta.2010.09.038>
- P-53** A. C. Garcia, A. Diaz Herrera, E. A. Ticianelli, **M. Chatenet**, C. Poinsignon, Evaluation of Several Carbon-Supported Nanostructured Ni-Doped Manganese Oxide Materials for the Electrochemical Reduction of Oxygen *J. Electrochem. Soc.* **158** (2011) B290-B296; <http://dx.doi.org/10.1149/1.3528439>
- P-54** K. S. Freitas, M. B. Molina Concha, E. A. Ticianelli, **M. Chatenet**, Mass transport effects in the borohydride oxidation reaction—Influence of the residence time on the reaction onset and faradaic efficiency (*invited* paper) *Catal. Today* **170** (2011) 110-119; <http://dx.doi.org/10.1016/j.cattod.2011.01.051>
- P-55** L. Dubau, J. Durst, F. Maillard, L. Guétaz, **M. Chatenet**, J. André, E. Rossinot, Further insights into the durability of Pt₃Co/C electrocatalysts: Formation of “hollow” Pt nanoparticles induced by the Kirkendall effect (*invited* paper) *Electrochim. Acta* **56** (2011) 10658-10667; <http://dx.doi.org/10.1016/j.electacta.2011.03.073>

- P-56** J. Rooke, C. de Matos Passos, **M. Chatenet**, R. Sescousse, T. Budtova, S. Berthon-Fabry, R. Mosdale, F. Maillard, Synthesis and Properties of Platinum Nanocatalyst Supported on Cellulose-Based Carbon Aerogel for Applications in PEMFCs
J. Electrochem. Soc. **158** (2011) B779-B789; <http://dx.doi.org/10.1149/1.3585744>
- P-57** B. Molina Concha, **M. Chatenet**, E. A. Ticianelli, F. H. B. Lima, In Situ Infrared (FTIR) Study of the Mechanism of the Borohydride Oxidation Reaction on Smooth Pt Electrode
J. Phys. Chem. C **115** (2011) 12439-12447 <http://dx.doi.org/10.1021/jp2002589>
- P-58** B. Vion-Dury, **M. Chatenet**, L. Guétaz, F. Maillard, Determination of Aging Markers and their use as a Tool to Characterize Pt/C Nanoparticles Degradation Mechanism in Model PEMFC Cathode Environment
ECS Trans. **41** (2011) 697-708; <http://dx.doi.org/10.1149/1.3635604>
- P-59** L. Dubau, J. Durst, L. Guétaz, F. Maillard, **M. Chatenet**, J. André, E. Rossinot, Heterogeneities of aging through-the-plane of a proton-exchange membrane fuel cell cathode
ECS Trans. **41** (2011) 827-836; <http://dx.doi.org/10.1149/1.3635616>
- P-60** M. B. Molina Concha, K. S. Freitas, A. Martini Pasqualetti, **M. Chatenet**, F. H. B. Lima, E. A. Ticianelli, Borohydride Oxidation on Platinum Electrodes – is Platinum Really a Faradaic Inefficient BOR Electrocatalyst?
ECS Trans. **41** (2011) 1719-1727; <http://dx.doi.org/10.1149/1.3635703>
- P-61** G. A. B. Mello, M. J. Giz, G. A. Camara, A. Crisci, **M. Chatenet**, Search for multi-functional catalysts: The electrooxidation of acetaldehyde on Platinum-Ruthenium-Rhodium electrodeposits
J. Electroanal. Chem. **660** (2011) 85-90; <http://dx.doi.org/10.1016/j.jelechem.2011.06.009>
- P-62** N. Caqué, M. Paris, **M. Chatenet**, E. Rossinot, R. Bousquet, E. Claude, Characterization of Uncoated Stainless Steel as Proton Exchange Membrane Fuel Cell Bipolar Plates material □
Fuel Cells **12** (2012) 248-255; <http://dx.doi.org/10.1002/fuce.201100073>
- P-63** L. Dubau, J. Durst, F. Maillard, **M. Chatenet**, J. André, E. Rossinot, Heterogeneities of Aging within a PEMFC MEA (invited paper)
Fuel Cells **12** (2012) 188-198; <http://dx.doi.org/10.1002/fuce.201100073>
- P-64** M. Ouattara-Brigaudet, S. Berthon-Fabry, C. Beauger, **M. Chatenet**, N. Job, M. Sennour, P. Achard, Influence of the carbon texture of platinum/carbon aerogel electrocatalysts on their behavior in a proton exchange membrane fuel cell cathode
Int. J. Hydrogen Energ. **37** (2012) 9742-9757;
<http://dx.doi.org/10.1016/j.ijhydene.2012.03.085>
- P-65** F. H. B. Lima, A. M. Pasqualetti, M. B. Molina Concha, **M. Chatenet**, E. A. Ticianelli Borohydride Electrooxidation on Au and Pt Electrodes (invited paper)
Electrochim. Acta **84** (2012) 202-212; <http://dx.doi.org/10.1016/j.electacta.2012.05.030>
- P-66** D. A. Cantane, W. F. Ambrosio, **M. Chatenet**, F. H. B. Lima Electro-oxidation of ethanol on Pt/C, Rh/C, and Pt/Rh/C-based electrocatalysts investigated by on-line DEMS
J. Electroanal. Chem. **681** (2012) 56–65; <http://dx.doi.org/10.1016/j.jelechem.2012.05.024>
- P-67** J. Durst, **M. Chatenet**, F. Maillard Impact of metal cations on the electrocatalytic properties of Pt/C nanoparticles at multiple phase interfaces
Phys. Chem. Chem. Phys. **14** (2012) 13000-13009; <http://dx.doi.org/10.1039/C2CP42191G>
- P-68** L. Dubau, L. Guétaz, J. Durst, F. Maillard, **M. Chatenet**, J. André, E. Rossinot

Evidences of “Through-Plane” Heterogeneities of Aging in a Proton-Exchange Membrane Fuel Cell

ECS Electrochem. Lett., **1** (2012) F1-F3; <http://dx.doi.org/10.1149/2.011202eel>

- P-69** A. Lamibrac, G. Maranzana, J. Dillet, O. Lottin, S. Didierjean, J. Durst, L. Dubau, F. Maillard, **M. Chatenet**, Local degradations resulting from repeated start-ups and shutdowns in Proton Exchange Membrane Fuel Cell (PEMFC)
Energy Procedia **29** (2012) 318-324; <http://dx.doi.org/10.1016/j.egypro.2012.09.038>
- P-70** A. C. Garcia, F. H. B. Lima, E. A. Ticianelli, **M. Chatenet**, Carbon-supported nickel-doped manganese oxides as electrocatalysts for the oxygen reduction reaction in the presence of sodium borohydride
J. Power Sources **222** (2013) 305-312; <http://dx.doi.org/10.1016/j.jpowsour.2012.08.049>
- P-71** B. Molina Concha, **M. Chatenet**, F. H. B. Lima, E. A. Ticianelli, In situ Fourier Transform InfraRed Spectroscopy and on-line Differential Electrochemical Mass Spectrometry study of the NH_3BH_3 oxidation reaction on gold electrodes
Electrochim. Acta **89** (2013) 607-615; <http://dx.doi.org/10.1016/j.electacta.2012.11.027>
- P-72** F. Moureaux, G. Toussaint, P. Stevens, **M. Chatenet**, Development of an oxygen-evolution electrode from 316L stainless steel: Application to the OER in aqueous lithium-air batteries.
J. Power sources **229** (2013) 123-132; <http://dx.doi.org/10.1016/j.jpowsour.2012.11.133>
- P-73** F. Moureaux, P. Stevens, **M. Chatenet**, 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.
Electrocatalysis **4** (2013) 123-133; <http://dx.doi.org/10.1007/s12678-013-0127-4>
- P-74** F. R. Nikkuni, E. A. Ticianelli, L. Dubau, M. Chatenet, Identical-location transmission electron microscopy study of Pt/C and Pt-Co/C nanostructured electrocatalysts ageing: effects of morphological and compositional changes on the oxygen reduction reaction activity.
Electrocatalysis **4** (2013) 104-116; <http://dx.doi.org/10.1007/s12678-013-0126-5>
- P-75** M. B. Molina Concha, **M. Chatenet**, C. Montella, J.-P. Diard, A Faradaic impedance study of E-EAR reaction.
J. Electroanal. Chem. **696** (2013) 24-37; <http://dx.doi.org/10.1016/j.jelechem.2013.02.013>
- P-76** J. Durst, A. Lamibrac, F. Charlot, J. Dillet, L. F. Castanheira, G. Maranzana, L. Dubau, F. Maillard, **M. Chatenet**, O. Lottin, Degradation heterogeneities induced by repetitive start/stop events in proton exchange membrane fuel cell: Inlet vs. outlet and channel vs. land.
Appl. Catal. B **138-139** (2013) 416-426; <http://dx.doi.org/10.1016/j.apcatb.2013.03.021>
- P-77** N. Job, **M. Chatenet**, S. Berthon-Fabry, S. Hermans, F. Maillard, Efficient Pt/carbon electrocatalysts for Proton Exchange Membrane fuel cells: avoid chloride-based Pt salts!
J. Power Sources **240** (2013) 294-305; <http://dx.doi.org/10.1016/j.jpowsour.2013.03.188>
- P-78** L. Dubau, M. Lopez-Haro, L. Castanheira, J. Durst, M. Chatenet, P. Bayle-Guillemaud, L. Guétaz, N. Caqué, E. Rossinot, F. Maillard, Probing the structure, the composition and the ORR activity of $\text{Pt}_3\text{Co}/\text{C}$ nanocrystallites during a 3422 h PEMFC ageing test.
Appl. Catal. B **142-143** (2013) 801-808; <http://dx.doi.org/10.1016/j.apcatb.2013.06.011>
- P-79** M. Lopez-Haro, L. Dubau, L. Castanheira, J. Durst, M. Chatenet, P. Bayle-Guillemaud, L. Guétaz, F. Maillard, Pt_3Co Nanoparticles and Carbon to the Test of PEMFC Operation Pt-Alloy and Core-Shell Cathode Catalysts .
ECS Trans. **58** (2013) 937-943; <http://dx.doi.org/10.1149/05801.0937ecst>
- P-80** L. Dubau, L. Castanheira, F. Maillard, M. Chatenet, O. Lottin, G. Maranzana, J. Dillet, J.-C. Perrin, E. Moukheiber, A. ElKaddouri, G. deMoor, C. Bas, L. Flandin, N. Caqué, Durability of membrane-electrode assembly under proton-exchange membrane fuel cell operation:

from materials degradation to local heterogeneities of aging and possible mitigation strategies (**invited** paper)

Wiley Interdisciplinary Rev. Energ. Environ. **3** (2014) 540-560;
<http://dx.doi.org/10.1002/wene.113>

- P-81** J. Durst, M. Lopez-Haro, L. Dubau, Laetitia; **M. Chatenet**, Y. Soldo-Olivier, L. Guétaz, P. Bayle-Guillemaud, F. Maillard, Reversibility of Pt-Skin and Pt-Skeleton Nanostructures in Acidic Media.
J. Phys. Chem. Lett. **5** (2014) 434-439; <http://dx.doi.org/10.1021/jz4025707>
- P-82** A. C. Garcia, J. J. Linares, E. A. Ticianelli, **M. Chatenet**, NiMnOx/C: A Non-noble Ethanol-Tolerant Catalyst for Oxygen Reduction in Alkaline Exchange Membrane DEFC.
Electrocatalysis **5** (2014) 41-49; <http://dx.doi.org/10.1007/s12678-013-0162-1>
- P-83** M. Lopez-Haro, L. Dubau, L. Guétaz, P. Bayle-Guillemaud, **M. Chatenet**, J. André, N. Caqué, E. Rossinot, F. Maillard, Atomic-scale structure and composition of Pt₃Co/C nanocrystallites during real PEMFC operation: A STEM–EELS study.
Appl. Catal. B **152-153** (2014) 300-308; <http://dx.doi.org/10.1016/j.apcatb.2014.01.034>
- P-84** P.-Y. Olu, B. Gilles, N. Job, **M. Chatenet**, Influence of the surface morphology of smooth platinum electrodes for the sodium borohydride oxidation reaction.
Electrochem. Commun. **43** (2014) 47-50; <http://dx.doi.org/10.1016/j.elecom.2014.02.018>
- P-85** P.-Y. Olu, C. Ribeiro Barros, N. Job, **M. Chatenet**, Electrooxidation of NaBH₄ in alkaline medium on well-defined Pt nanoparticles deposited onto flat glassy carbon substrate: evaluation of the effects of Pt nanoparticle size, inter-particle distance and loading.
Electrocatalysis **5** (2014) 288-300; <http://dx.doi.org/10.1007/s12678-014-0195-0>
- P-86** F. R. Nikkuni, B. Vion-Dury, L. Dubau, F. Maillard, E. A. Ticianelli, **M. Chatenet**, The role of water in the degradation of Pt₃Co/C nanoparticles: an Identical Location Transmission Electron Microscopy study in Polymer Electrolyte Environment.
Appl. Catal. B **156-157** (2014) 301-306; <http://dx.doi.org/10.1016/j.apcatb.2014.03.029>
- P-87** L. Castanheira, L. Dubau, M. Mermoux, G. Berthomé, N. Caqué, E. Rossinot, **M. Chatenet**, F. Maillard, Carbon Corrosion in Proton-Exchange Membrane Fuel Cells: From Model Experiments to Real-Life Operation in Membrane Electrode Assemblies.
ACS Catal. **4** (2014) 2258–2267; <http://dx.doi.org/10.1021/cs500449q>
- P-88** L. Dubau, L. Castanheira, **M. Chatenet**, F. Maillard, J. Dillet, G. Maranzana, S. Abbou, O. Lottin, G. De Moor, A. El Kaddouri, C. Bas, L. Flandin, E. Rossinot, N. Caqué, Carbon corrosion induced by membrane failure: the weak link of PEMFC long term performance (**invited** paper)
Int. J. Hydrogen Energ. **39** (2014) 21902-21914;
<http://dx.doi.org/10.1016/j.ijhydene.2014.07.099>
- P-89** A. Bach Delpeuch, T. Asset, **M. Chatenet**, C. Cremers, Electrooxidation of Ethanol at Room Temperature on Carbon-Supported Pt and Rh-Containing Catalysts: A DEMS Study.
J. Electrochem. Soc. **161** (2014) F918-F924; <http://dx.doi.org/10.1149/2.0731409jes>
- P-90** A. Zadick, L. Dubau, A. Zalineeva, C. Coutanceau, **M. Chatenet**, When cubic nanoparticles get spherical: An Identical Location Transmission Electron Microscopy case study with Pd in alkaline media.
Electrochem. Commun. **48** (2014) 1-4; <http://dx.doi.org/10.1016/j.elecom.2014.07.020>
- P-91** A. Bach Delpeuch, **M. Chatenet**, C. Cremers, T. Tübke, Mass spectrometric investigation of ethanol and acetaldehyde adsorbates electrooxidation on Pt electrocatalyst.
Electrochim. Acta **141** (2014) 102-112; <http://dx.doi.org/10.1016/j.electacta.2014.06.143>

- P-92** A. Zubiaur, **M. Chatenet**, F. Maillard, S. D. Lambert, J.-P. Pirard, N. Job, Using the multiple SEA method to synthesize Pt/carbon xerogel electrocatalysts for PEMFC applications.
Fuel Cells **14** (2014) 343-349; <http://dx.doi.org/10.1002/fuce.201300208>
- P-93** L. Dubau, M. Lopez-Haro, J. Durst, L. Guétaz, P. Bayle-Guillemaud, M. Chatenet, F. Maillard, Beyond conventional electrocatalysts: hollow nanoparticles for improved and sustainable oxygen reduction reaction activity.
J. Mater. Chem. A, **2** (2014), 18497-18507; <http://dx.doi.org/10.1039/c4ta03975k>
- P-94** P.-Y. Olu, A. Bonnefont, M. Rouhet, S. Bozdech, N. Job, **M. Chatenet**, E. Savinova, Insights into the potential dependence of the borohydride electrooxidation reaction mechanism on platinum nanoparticles supported on ordered carbon nanomaterials (*invited paper*)
Electrochim. Acta **179** (2015) 637-646; <http://dx.doi.org/10.1016/j.electacta.2015.02.158>
- P-95** A. Bach Delpéuch, T. Asset, **M. Chatenet**, C. Cremers, Influence of the Temperature for the Ethanol Oxidation Reaction (EOR) on Pt/C, Pt-Rh/C and Pt-Rh-SnO₂/C.
Fuel Cells **15** (2015) 352-360; <http://dx.doi.org/10.1002/fuce.201400144>
- P-96** A. Pasqualetti, P.-Y. Olu, **M. Chatenet**, F. H. B. Lima, Borohydride Electrooxidation on Carbon-Supported Noble Metal Nanoparticles: Insights into Hydrogen and Hydroxyborane Formation.
ACS Catal. **5** (2015) 2778-2787; <http://dx.doi.org/10.1021/acscatal.5b00107>
- P-97** A. Bach Delpéuch, **M. Chatenet**, M. Sol Rau, C. Cremers, C. Cremers, Influence of H- and OH-adsorbates on the ethanol oxidation reaction – a DEMS study.
Phys. Chem. Chem. Phys. **17** (2015) 10881-10893; <http://dx.doi.org/10.1039/c5cp00132c>
- P-98** S. Pylypko, A. Zadick, **M. Chatenet**, P. Miele, M. Cretin, U.B. Demirci, A preliminary study of sodium octahydrotriborate NaB₃H₈ as potential anodic fuel of direct liquid fuel cell,
J. Power Sources **286** (2015) 10-17; <http://dx.doi.org/10.1016/j.jpowsour.2015.03.143>
- P-99** **M. Chatenet**, Electrochemical Quartz Crystal Microbalance determination of nickel formal partial charge number as a function of the electrode potential upon nickel underpotential deposition on platinum in sulfuric medium, *Electrocatalysis* **6** (2015) 382-389; <http://dx.doi.org/10.1007/s12678-015-0256-z>
- P-100** F. R. Nikkuni, L. Dubau, E. A. Ticianelli, **M. Chatenet**, Accelerated degradation of Pt₃Co/C and Pt/C electrocatalysts studied by identical-location transmission electron microscopy in polymer electrolyte environment.
Appl. Catal. B **176** (2015) 486–499; <http://dx.doi.org/10.1016/j.apcatb.2015.04.035>
- P-101** S. Berthon-Fabry, L. Dubau, Y. Ahmad, K. Guerin, **M. Chatenet**, First insight into fluorinated Pt/carbon aerogels as more corrosion-resistant electrocatalysts for Proton Exchange Membrane Fuel Cell cathodes.
Electrocatal. **6** (2015) 521-533; <http://dx.doi.org/10.1007/s12678-015-0267-9>
- P-102** A. Zadick, L. Dubau, N. Sergent, G. Berthomé, **M. Chatenet**, Huge Instability of Pt C Catalysts in Alkaline Medium.
ACS Catal. **5** (2015) 4819-4824; <http://dx.doi.org/10.1021/acscatal.5b01037>
- P-103** A. Serov, N. I. Andersen, S. A. Kabir, A. Roy, T. Asset, **M. Chatenet**, F. Maillard, P. Atanassov, Palladium Supported on 3D Graphene as an Active Catalyst for Alcohols Electrooxidation.
J. Electrochem. Soc. **162** (2015) F1305-F1309; <http://dx.doi.org/10.1149/2.0301512jes>

- P-104** P.-Y. Olu, F. Deschamps, G. Caldarella, **M. Chatenet**, N. Job, Investigation of platinum and palladium as potential anodic catalysts for direct borohydride and ammonia borane fuel cells.
J. Power Sources **297** (2015) 492–503; <http://dx.doi.org/10.1016/j.jpowsour.2015.08.022>
- P-105** A. Zadick, L. Dubau, N. Sergent, G. Berthomé, **M. Chatenet**, Instability of commercial Pt/C and Pd/C electrocatalysts in alkaline media.
ECS Trans. **69** (2015) 553-558; <http://dx.doi.org/10.1149/06917.0553ecst>
- P-106** J. Durst, L. Dubau, L. Castanheira, F. Maillard, A. Lamibrac, J. Dillet, G. Maranzana, O. Lottin, A. El Kaddouri, G. de Moor, C. Bas, L. Flandin, E. Rossinot, N. Caqué, **M. Chatenet**, Various scales of aging heterogeneities upon PEMFC operation - A link between local MEA materials degradation and the cell performance.
ECS Trans. **69** (2015) 133-146; <http://dx.doi.org/10.1149/06917.0133ecst>
- P-107** G. A. B. Mello, M. J. Giz, **M. Chatenet**, G. A. Camara, The electrooxidation of acetaldehyde on platinum-ruthenium-rhodium surfaces: A delicate balance between oxidation and carbon-carbon bond breaking
J. Electroanal. Chem. **765**, (2016) 73-78; <http://dx.doi.org/10.1016/j.jelechem.2015.07.010>
- P-108** A. Bach Delpéuch, F. Maillard, **M. Chatenet**, P. Soudant, C. Cremers, Ethanol Oxidation Reaction (EOR) investigation on Pt/C, Rh/C, and Pt-based bi- and tri-metallic electrocatalysts: a DEMS and in situ FTIR study.
Appl. Catal. B **181** (2016) 672–680; <http://dx.doi.org/10.1016/j.apcatb.2015.08.041>
- P-109** V. L. Oliveira, E. Sibert, Y. Soldo-Olivier, E. A. Ticianelli, **M. Chatenet**, Borohydride electrooxidation reaction on Pt(111) and Pt(111) modified by a pseudomorphic Pd monolayer.
Electrochim. Acta **190** (2016) 790–796; <http://dx.doi.org/10.1016/j.electacta.2016.01.013>
- P-110** A. Serov, Tristan Asset, M. Padilla, I. Matanovic, U. Martinez, A. Roy, K. Artyushkova, **M. Chatenet**, F. Maillard, D. Bayer, C. Cremers, P. Atanassov, Highly-active Pd–Cu electrocatalysts for oxidation of ubiquitous oxygenated fuels.
Appl. Catal. B **191** (2016) 76–85; <http://dx.doi.org/10.1016/j.apcatb.2016.03.016>
- P-111** A. Bach Delpéuch, C. Cremers, **M. Chatenet**, Impact of water adsorbates on the acetaldehyde oxidation reaction on Pt- and Rh-based multimetallic electrocatalysts.
Electrochim. Acta **188** (2016) 551-559; <http://dx.doi.org/10.1016/j.electacta.2015.12.038>
- P-112** A. Zadick, L. Dubau, U. B. Demirci, **M. Chatenet**, Effects of Pd Nanoparticle Size and Solution Reducer Strength on Pd/C Electrocatalyst Stability in Alkaline Electrolyte.
J. Electrochem. Soc. **163** (2016) F781-F787; <http://dx.doi.org/10.1149/2.0141608jes>
- P-113** V. L. Oliveira, E. Sibert, Y. Soldo-Olivier, E. A. Ticianelli, **M. Chatenet**, Investigation of the electrochemical oxidation reaction of the borohydride anion in palladium layers on Pt(111).
Electrochim. Acta **209** (2016) 360-368; <http://dx.doi.org/10.1016/j.electacta.2016.05.093>
- P-114** P.-Y. Olu, N. Job, **M. Chatenet**, Evaluation of anode (electro)catalytic materials for the direct borohydride fuel cell: methods and benchmarks.
J. Power Sources **327** (2016) 235-257; <http://dx.doi.org/10.1016/j.jpowsour.2016.07.041>
- P-115** A. Bach Delpéuch, M. Jacquot, **M. Chatenet**, C. Cremers, Influence of mass-transport conditions on the ethanol oxidation reaction (EOR) mechanism on Pt/C electrocatalyst.
Phys. Chem. Chem. Phys. **18** (2016) 25169-25175; <http://dx.doi.org/10.1039/c6cp04294e>

- P-116** T. Asset, A. Roy, T. Sakamoto, M. Padilla, I. Matanovic, K. Artyushkova, A. Serov, F. Maillard, **M. Chatenet**, K. Asazawa, H. Tanaka, P. Atanassov, Highly active and selective nickel molybdenum catalysts for direct hydrazine fuel cell.
Electrochim. Acta **215** (2016) 420-426; <http://dx.doi.org/10.1016/j.electacta.2016.08.106>
- P-117** D. Barsuk, A. Zadick, **M. Chatenet**, K. Georgarakis, N. T. Panagiotopoulos, Y. Champion, A. Moreira Jorge, Nanoporous silver for electrocatalysis application in alkaline fuel cells.
Materials and Design: **111** (2016) 528-536; <http://dx.doi.org/10.1016/j.matdes.2016.09.037>
- P-118** G. Cognard, G. Ozouf, C. Beauger, G. Berthomé, D. Riassetto, L. Dubau, R. Chattot, **M. Chatenet**, F. Maillard, Benefits and limitations of Pt nanoparticles supported on highly porous antimony-doped tin dioxide aerogel as alternative cathode material for proton-exchange membrane fuel cells.
Appl. Catal. B: **201** (2017) 381-390; <http://dx.doi.org/10.1016/j.apcatb.2016.08.010>
- P-119** D. C. de Oliveira, W.O Silva, **M. Chatenet**, F.H.B Lima, NiOx-Pt/C nanocomposites: Highly active electrocatalysts for the electrochemical oxidation of hydrazine.
Appl. Catal. B: **201** (2017) 22-28; <http://dx.doi.org/10.1016/j.apcatb.2016.08.007>
- P-120** G. Cognard, G. Ozouf, C. Beauger, I. Jiménez-Morales, S. Cavaliere, D. Jones, J. Rozière, **M. Chatenet**, F. Maillard, Pt Nanoparticles Supported on Niobium-Doped Tin Dioxide: Impact of the Support Morphology on Pt Utilization and Electrocatalytic Activity.
Electrocatalysis **8** (2017) 51-58; <http://dx.doi.org/10.1007/s12678-016-0340-z>
- P-121** H.A. Miller, F. Vizza, M. Marelli, A. Zadick, L. Dubau, **M. Chatenet**, S. Geiger, S. Cherevko, H. Doan, R. K. Pavlicek, S. Mukerjee, D. R. Dekel, Highly active nanostructured palladium-ceria electrocatalysts for the hydrogen oxidation reaction in alkaline medium.
Nano Energy **33** (2017) 293-305; <http://dx.doi.org/10.1016/j.nanoen.2017.01.051>
- P-122** S. Kabir, A. Zadick, P. Atanassov, L. Dubau, **M. Chatenet**, Stability of carbon-supported palladium nanoparticles in alkaline media: A case study of graphitized and more amorphous supports.
Electrochem. Commun. **78** (2017) 33-37; <http://dx.doi.org/10.1016/j.elecom.2017.03.017>
- P-123** V. Caldeira, L. Jouffret, J. Thiel, F. R. Lacoste, S. Obbade, L. Dubau, **M. Chatenet**, Ultrafast Hydro-Micromechanical Synthesis of Calcium Zincate: Structural and Morphological Characterizations.
J. Nanomater. (2017) Article ID 7369397; <https://doi.org/10.1155/2017/7369397>
- P-124** V. Caldeira, L. Jouffret, J. Thiel, F. R. Lacoste, S. Obbade, L. Dubau, **M. Chatenet**, Controlling the shape change and dendritic growth in Zn negative electrodes for application in Zn/Ni batteries.
J. Power Sources **350** (2017) 109-116; <http://dx.doi.org/10.1016/j.jpowsour.2017.03.069>
- P-125** A. Zadick, L. Dubau, K. Artyushkova, A. Serov, P. Atanassov, **M. Chatenet**, Nickel-based electrocatalysts for ammonia borane oxidation: enabling materials for carbon-free-fuel direct liquid alkaline fuel cell technology.
Nano Energy **2017**, **37** (2017) 248-259; <https://doi.org/10.1016/j.nanoen.2017.05.035>
- P-126** G. Cognard, G. Ozouf, C. Beauger, M. López-Haro, **M. Chatenet**, F. Maillard, Pt Insights into the stability of Pt nanoparticles supported on antimony-doped and niobium-doped tin dioxide in different potential ranges.
Electrochimica Acta **245** (2017) 993-1004; <http://dx.doi.org/10.1016/j.electacta.2017.05.178>
- P-127** V. A. Ruffo, A. Crisci, **M. Chatenet**, G. A. Camara, All at once: How electrochemistry can be used to design and access multiple compositions in a single sample.
J. Mater. Chem. A **5** (2017) 22641-22647; <http://dx.doi.org/10.1039/c7ta05036d>

- P-128** R. M. E. Hjelm, Y. Garsany, R. W. Atkinson III, R. O. Stroman, K. Swider-Lyons, C. Lafforgue, **M. Chatenet**, Sodium Borohydride Oxidation on Pt and/or Pd-based Electrodes in Hydrogen Peroxide Direct Borohydride Fuel Cells (H₂O₂-DBFCs). *ECS Trans.* **80** (2017) 1033-1042; <http://dx.doi.org/10.1149/08008.1033>
- P-129** P.-Y. Olu, A. Bonnefont, G. Braesch, V. Martin, E. R. Savinova, **M. Chatenet**, Influence of the concentration of borohydride towards hydrogen production and escape for borohydride oxidation reaction on Pt and Au electrodes - experimental and modelling insights (**invited paper**). *J. Power Sources* **375** (2018) 300-309; <http://dx.doi.org/10.1016/j.jpowsour.2017.07.061>
- P-130** V. L. Oliveira, E. Sibert, Y. Soldo-Olivier, E. A. Ticianelli, **M. Chatenet**, Insertion/disinsertion of hydrogen in tailored Pd layers deposited on Pt(111) surface in alkaline and acidic medium (**invited paper**). *Electrocatalysis* **9** (2018) 258-263; <http://dx.doi.org/10.1007/s12678-017-0414-6>
- P-131** S. Pylypko, S. Ould-Amara, A. Zadick, E. Petit, **M. Chatenet**, M. Cretin, U. B. Demirci, The highly stable aqueous solution of sodium dodecahydro-closododecaborate Na₂B₁₂H₁₂ as a potential liquid anodic fuel. *Applied Catal. B* **222** (2018) 1-8; <http://dx.doi.org/10.1016/j.apcatb.2017.09.068>
- P-132** R. Blanchard, V. Martin, A. Mantoux, **M. Chatenet**, Cobalt porphyrin and Salcomine as novel redox shuttle species to enhance the oxygen evolution reaction in Li-O₂ batteries. *Electrochim. Acta* **261** (2018) 384-393; <https://doi.org/10.1016/j.electacta.2017.12.129>
- P-133** A. Serov, I. V. Zenyuk, C. G. Arges, **M. Chatenet**, Hot topics in alkaline exchange membrane fuel cells. *J. Power Sources* **375** (2018) 149-157; <https://doi.org/10.1016/j.jpowsour.2017.09.068>
- P-134** C. Lafforgue, **M. Chatenet**, L. Dubau, D. R. Dekel, Accelerated Stress Test of Pt/C Nanoparticles in an Interface with an Anion-Exchange Membrane - An Identical-Location Transmission Electron Microscopy Study. *ACS Catal.* **8** (2018) 1278-1286; <https://doi.org/10.1021/acscatal.7b04055>
- P-135** H. Schäfer, **M. Chatenet**, Steel, the Resurrection of a Forgotten Water-Splitting Catalyst. *ACS Energy Lett.* **3** (2018) 574-591; <http://dx.doi.org/10.1021/acseenergylett.8b00024>
- P-136** G. Ozouf, G. Cognard, F. Maillard, **M. Chatenet**, L. Guétaz, M. Heitzmann, P. A. Jacques, C. Beauger, Sb-doped SnO₂ Aerogels Based Catalysts for Proton Exchange Membrane Fuel Cells: Pt Deposition Routes, Electrocatalytic Activity and Durability. *J. Electrochem. Soc.* **165** (2018) F3036-F3044; <http://dx.doi.org/10.1149/2.0041806jes>
- P-137** C. Lafforgue, A. Zadick, L. Dubau, F. Maillard, **M. Chatenet**, Selected Review of the degradation of Pt and Pd-based Carbon-supported Electrocatalysts for Alkaline Fuel Cells: Towards Mechanisms of Degradation. *Fuel Cells* **18** (2018) 229-238; <http://dx.doi.org/10.1002/fuce.201700094>
- P-138** A. Zadick, J.-F. Petit, V. Martin, L. Dubau, U. B. Demirci, C. Geantet, **M. Chatenet**, Ubiquitous Borane Fuel Electrooxidation on Pd/C and Pt/C Electrocatalysts: Toward Promising Direct Hydrazine-Borane Fuel Cells. *ACS Catal.* **8** (2018) 3150-3163; <http://dx.doi.org/10.1021/acscatal.7b04321>
- P-139** C. Niether, S. Faure, A. Bordet, J. Deseure, **M. Chatenet**, J. Carrey, B. Chaudret, A. Rouet, Improved Water Electrolysis Using Magnetic Heating of FeC Core Ni Shell Nanoparticles. *Nature Energy.* **3** (2018) 476-483; <http://dx.doi.org/10.1038/s41560-018-0132-1>

- P-140** G. Braesch, A. Bonnefont, V. Martin, E. R. Savinova, **M. Chatenet**, Borohydride oxidation reaction mechanisms and poisoning effects on Au, Pt and Pd bulk electrodes: from model (low) to direct borohydride fuel cell operating (high) concentrations (**invited** paper). *Electrochim. Acta* **273** (2018) 483-494; <https://doi.org/10.1016/j.electacta.2018.04.068>
- P-141** T. Asset, R. Chattot, F. Maillard, L. Dubau, Y. Ahmad, N. Batisse, M. Dubois, K. Guérin, F. Labbé, R. Metkemeijer, S. Berthon-Fabry, **M. Chatenet**, Activity and Durability of Platinum-Based Electrocatalysts Supported on Bare or Fluorinated Nanostructured Carbon Substrates (**invited** paper). *J. Electrochem. Soc.* **165** (2018) F1-F13; <https://doi.org/10.1149/2.031806jes>
- P-142** F. Labbé, E. Disa, Y. Ahmad, K. Guérin T. Asset, F. Maillard, **M. Chatenet**, R. Metkemeijer, S. Berthon-Fabry, Tin dioxide coated carbon materials as an alternative catalyst support for PEMFCs: Impacts of the intrinsic carbon properties and the synthesis parameters on the coating characteristics. *Microporous Mesoporous Mater.* **271** (2018) 1-15; <https://doi.org/10.1016/j.micromeso.2018.05.019>
- P-143** T. Asset, A. Serov, M. Padilla, A. J. Roy, I. Matanovic, **M. Chatenet**, F. Maillard, P. Atanasov, Design of Pd-Pb Catalysts for Glycerol and Ethylene Glycol Electrooxidation in Alkaline Medium. *Electrocatal.* **9** (2018) 480-485 ; <https://doi.org/10.1007/s12678-017-0449-8>
- P-144** J. L. Bott Neto, T. Asset, F. Maillard, L. Dubau, Y. Ahmad, K. Guérin S. Berthon-Fabry, A. Mosdale, R. Mosdale, E. A. Ticianelli, **M. Chatenet**, Utilization of graphitized and fluorinated carbon as platinum nanoparticles supports for application in proton exchange membrane fuel cell cathodes. *J. Power Sources* **44** (2018) 28-38; <https://doi.org/10.1016/j.jpowsour.2018.10.004>
- P-145** R. K. Sharma, V. Müller, **M. Chatenet**, E. Djurado, Oxygen Reduction Reaction Electrocatalysis in Alkaline Electrolyte on Glassy-Carbon-Supported Nanostructured Pr₆O₁₁ Thin-Films. *Catalysts* **8** (2018) 461-475; <https://doi.org/10.3390/catal8100461>
- P-146** R. M. E. Hjelm, Y. Garsany, C. Lafforgue, **M. Chatenet**, K. Swider-Lyons, Improvement of the borohydride oxidation reaction by electrocatalysis on Pt/[TaOP₄/VC]. *ECS Trans.* **86** (2018) 659-670; <http://dx.doi.org/10.1149/08613.0659ecst>
- P-147** F. Labbé, T. Asset, **M. Chatenet**, Y. Ahmad, K. Guérin, R. Metkemeijer, S. Berthon-Fabry, Activity and Durability of Platinum-Based Electrocatalysts with Tin Oxide-Coated Carbon Aerogel Materials as Catalyst Supports. *Electrocatalysis* **10** (2019) 156-172; <https://doi.org/10.1007/s12678-018-0505-z>
- P-148** **M. Chatenet**, Tailoring membranes. *Nature Energy* **4** (2019) 261-262; <https://doi.org/10.1038/s41560-019-0348-8>
- P-149** C. Lafforgue, F. Maillard, V. Martin, L. Dubau, **M. Chatenet**, Degradation of Carbon-supported Platinum Group Metal Electrocatalysts in Alkaline Media Studied by *in situ* Fourier-Transform Infrared Spectroscopy and Identical-Location Transmission Electron Microscopy. *ACS Catal.* **9** (2019) 5613-5622; <http://dx.doi.org/10.1021/acscatal.9b00439>
- P-150** M. Rhandi, M. Trégaro, F. Druart, J. Deseure, **M. Chatenet**, Electrochemical hydrogen compression and purification versus competing technologies – Part I: pros and cons. *Chinese J. Catal.* **In press** (2019) xxx; [http://dx.doi.org/S1872-2067\(19\)63404-2](http://dx.doi.org/S1872-2067(19)63404-2)

- P-151** M. Rhandi, M. Trégaro, F. Druart, J. Deseure, **M. Chatenet**, Electrochemical hydrogen compression and purification versus competing technologies – Part II: challenges in electrocatalysis.
Chinese J. Catal. **In press** (2019) xxx; [http://dx.doi.org/S1872-2067\(19\)63438-8](http://dx.doi.org/S1872-2067(19)63438-8)
- P-152** F. Moureaux, P. Stevens, G. Toussaint, **M. Chatenet**, Timely-activated 316L stainless steel: A low cost, durable and active electrode for oxygen evolution reaction in concentrated alkaline environments.
Appl. Catal. B: Environmental **258** (2019) xxx; <https://doi.org/10.1016/j.apcatb.2019.117963>
- P-153** A. G. Oshchepkov, G. Braesch, S. Ould-Amara, G. Rostamikia, G. Maranzana, A. Bonnefont, V. Papaefthimiou, M. J. Janik, **M. Chatenet**, E. R. Savinova, Nickel Metal Nanoparticles as Anode Electrocatalysts for Highly Efficient Direct Borohydride Fuel Cells.
ACS Catal. **9** (2019) 8520-8528; <https://doi.org/10.1021/acscatal.9b01616>
- P-154** R. M. E. Hjelm, C. Lafforgue, R. W. Atkinson III, Y. Garsany, R. O. Stroman, **M. Chatenet**, K. Swider-Lyons, Impact of the Anode Catalyst Layer Design on the Performance of H₂O₂-Direct Borohydride Fuel Cells.
J. Electrochem. Soc. **166** (2019) F1-F11; <http://dx.doi.org/10.1149/2.0681914jes>
- P-155** L. Ring, B. Pollet, **M. Chatenet**, S. Abbou, K. Küpper, M. Schmidt, M. Huck, A. Gries, M. Steinhart, H. Schäfer, From bad electrochemical practices to an environmental and waste reducing approach for the generation of active hydrogen evolving electrodes.
Angewandte Chemie, Int. Ed. **59** (2019) 2-12; <http://dx.doi.org/10.1002/anie.201908649>

Brevet

- B-1** E. Remita, **M. Chatenet**, J.-L. Bergamasco, D. Tigréat, X. Boutin, Electrode à catalyse hétérogène et procédé de fabrication, SAGEM-SA, Argenteuil (déposé le 16/12/2004 – n° 0413418)
- B-2** F. Moureaux, G. Toussaints, P. Stevens, **M. Chatenet**, Electrolyte aqueux pour batterie Lithium-air, EDF / LEPMI (déposé le 9/11/2011 - n° FR2012/052576 ; publié le 10/05/2013 – n° 2982427)
- B-3** A. Montaut, S. Moutin, J. Durst, **M. Chatenet**, F. Maillard, L. Dubau, Nanoparticules creuses de Pt pour électrocatalyse à basse température, LEPMI / Air Liquide (déposé le 25/06/2012 - n° 2012/55986 ; publié le 27/12/2013 – n° 2992235 ; brevet Européen EP 2 680 353 A1 ; brevet US 9 775 246 B2)
- B-4** D. Aymé-Perrot, P. Sonntag, M. Zimmermann, **M. Chatenet**, F. Maillard, Use of high specific surface area carbon materials as counter electrode for electrochemical measurements, Grenoble-INP, CNRS, Hutchinson (déposé le 19/01/2015 - n° 15305053.9 – 1554 ; publié le 28 juillet 2016 – n° WO2016116382 A1)
- B-5** V. Caldeira, L. Dubau, **M. Chatenet**, Electrode à réseau multiple de collecte de courant, CNRS, Grenoble-INP (déposé le 30/08/2017 - n° 17 58012 ; publié le xxx – n° xxx)
- B-6** D. A. Finkelstein, P. Bonin, **M. Chatenet**, Carbon electrode for dichromate redox flow batteries, Grenoble-INP, CNRS, Lanxess (déposé le 09/01/2019 - n° 18290121.5 – 1108 ; publié le xxx – n° xxx)
- B-7** D. A. Finkelstein, P. Bonin, **M. Chatenet**, Dichromate / zink redox flow batteries, Grenoble-INP, CNRS, Lanxess (déposé le 09/01/2019 - n° 18290120.7 – 1108 ; publié le xxx – n° xxx)

Extended abstracts reviewed on full text

- AT-1 M. Chatenet**, M. Aurousseau, R. Durand, F. Andolfatto, New bimetallic catalysts for oxygen diffusion cathode in the brine electrolysis process, *ECS Proceedings of the International Society of Electrochemistry & the Electrochemical Society joint meeting*, **San Francisco** (2001) 371
- AT-2 M. Chatenet**, R. Faure, Y. Soldo-Olivier, Nickel underpotential deposition on well-defined platinum (110) surface, *ECS Proceeding of the Electrochemical Society meeting – Seventh international symposium on electrode processes*, **Honolulu** (2004) 25
- AT-3 J. Bernard, M. Boinet, M. Chatenet, F. Dalard**, Acoustic emission coupled to RRDE measurements to characterize aluminum behaviour in aqueous alkaline solutions, *Proceedings of the European Corrosion Congress – EUROCORR*, **Lisbonne** (2005) abstract n° O-312-F
- AT-4 J. Marie, S. Berthon-Fabry, P. Achard, M. Chatenet, E. Chainet, N. Cornet**, Platinum supported on resorcinol-formaldehyde based carbon aerogels for PEMFC electrodes: influence of the carbon support on electrocatalytic properties, *Proceedings of the 7th European Symposium on Electrochemical Engineering – ESEE*, **Toulouse** (2005) 213
- AT-5 F. Fischer, E. Guilminot, M. Chatenet, A. Rigacci, S. Berthon-Fabry, E. Chainet, P. Achard**, Nanostructured carbons from cellulose aerogels for PEMFC electrodes: elaboration and electrochemical characterization, *Proceedings of the 7th European Symposium on Electrochemical Engineering – ESEE*, **Toulouse** (2005) 333
- AT-6 E. Guilminot, A. Corcella, F. Maillard, M. Chatenet**, L'ultramicroélectrode à cavité : un outil performant pour la caractérisation d'électrocatalyseur de nanoparticules en Pt/C de piles à combustible basse température, *Actes du colloque Electrochimie dans les nanosciences – Société française de chimie*, **Paris** (2006) A14
- AT-7 C. Lebouin, Y. Soldo-Olivier, P. Millet, M. Chatenet, R. Faure**, Dépôt en sous potentiel de palladium sur monocristaux de platine: étude du système Pd-H en basse dimensionnalité, *Actes du colloque Electrochimie dans les nanosciences – Société française de chimie*, **Paris** (2006) CO18
- AT-8 M. Brigaudet, S. Berthon-Fabry, C. Beauger, P. Achard, M. Chatenet**, Influence of carbon aerogel texture on PEMFC performances, *Proceedings of the Fundamentals and Developments of Fuel Cell Conference 2008*, **Nancy** (2008) 10-4 p. 48
- AT-9 N. Caque, E. Rossinot, M. Chatenet**, Performance and lifetime of a PEMFC stack using stainless steel bipolar plates, *Proceedings of the Fundamentals and Developments of Fuel Cell Conference 2008*, **Nancy** (2008) 11-1 p. 73
- AT-10 M. Chatenet, E. Guilminot, A. Corcella, F. Maillard**, Using the UltraMicroElectrode with cavity (UMEC) to characterize carbon-supported platinum for proton exchange membrane fuel cell applications, *Proceedings of the Fundamentals and Developments of Fuel Cell Conference 2008*, **Nancy** (2008) 11-3 p. 87
- AT-11 B. Molina Concha, M. Chatenet, C. Coutanceau, F. Hahn**, In situ Infrared (FTIR) study in of the borohydride oxidation reaction – application to the direct borohydride fuel cell, *Proceedings of the Fundamentals and Developments of Fuel Cell Conference 2008*, **Nancy** (2008) 12-1 p. 117
- AT-12 F. Maillard, M. Chatenet, E. Rossinot, E. Claude**, Ageing mechanisms of Pt/C nanoparticles in a Proton Exchange Membrane Fuel Cells (PEMFC), *Proceedings of the Fundamentals and Developments of Fuel Cell Conference 2008*, **Nancy** (2008) 12-2 p. 128

- AT-13** N. Job, F. Maillard, **M. Chatenet**, C. J. Gommès, S. Lambert, S. Hermans, J. R. Regalbuto, J.-P. Pirard, Synthesis and characterization of highly loaded Pt/carbon xerogel catalysts prepared by the Strong Electrostatic Adsorption method, in: “Scientific Bases for the preparation of heterogeneous catalysts”, Series Studies in Surface Science and Catalysis, E. M. Gaigneaux, M. Devillers, S. Hermans, P. Jacobs, J. Martens and P. Ruiz (Editors), Elsevier B.V., Vol. **175** (2010) 169-176.
- AT-14** A. Zubiaur, **M. Chatenet**, F. Maillard, S. Lambert, J.-P. Pirard, N. Job, The Multiple SEA Method: a Method to Synthesize Pt/Carbon Xerogel Catalysts for PEMFC, *Proceedings of the Fundamentals and Developments of Fuel Cells Conference 2013*, Karlsruhe (2013) P032.
- AT-15** C. Beauger, L. Testut, G. Ozouf, S. Berthon-Fabry, G. Cognard, **M. Chatenet**, F. Maillard, S. Cavaliere, D. Jones, L. Guetaz, J. Rozières, A. Mosdale, R. Mosdale, Suricat, a project dedicated to stable PEMFC catalyst supports, *Proceedings of the 6th European Fuel Cell - Piero Lunghi Conference, EFC 2015*, Naples (2015) 45 - 46.
- AT-16** Y. Ahmad, K. Guérin, L. Dubau, **M. Chatenet**, S. Berthon-Fabry, Proton Exchange Membrane Fuel Cell With Enhanced Durability Using Fluorinated Carbon As Electrocatalyst, 11th European Space Power Conference, Thessaloniki, E3S Web Conf. 16 (2017) 17001.

Extended abstracts reviewed on short abstract

- AR-1** L. Akrou, E. Chainet, **M. Chatenet**, J.-F. Fauvarque, B. Perez, I. Roche, Alkaline fuel cell using anionic membrane, *Proceedings of the 5th Advanced Batteries and Accumulators*, **Brno** (2004) 77
- AR-2** J. Vondrák, B. Klápště, J. Velická, M. Sedlářková, J. Reitera, I. Roche, E. Chainet, **M. Chatenet**, Electrochemical activity of manganese oxide/carbon-based electrocatalysts, *Proceedings of the 6th Advanced Batteries and Accumulators*, **Brno** (2005) 22
- AR-3** **M. Chatenet**, F. Micoud, I. Roche, E. Chainet, J. Vondrák, Kinetics of oxygen reduction in sodium (hydroxide + borohydride) electrolyte, *Proceedings of the 7th Advanced Batteries and Accumulators*, **Brno** (2006) 23
- AR-4** I. Roche, E. Chainet, **M. Chatenet**, J. Vondrák, Manganese oxide/carbon-based electrocatalysts for ORR in alkaline medium: ORR mechanism, *Proceedings of the 7th Advanced Batteries and Accumulators*, **Brno** (2006) 72
- AR-5** **M. Chatenet**, E. Guilminot, A. Corcella, F. Maillard, Using the ultramicroelectrode with cavity (UMEC) as a tool to characterize carbon-supported platinum for proton exchange membrane fuel cell applications, *Proceedings of the 8th Advanced Batteries and Accumulators*, **Brno** (2007) 245
- AR-6** L. Dubau, M. Lopez-Haro, L. Guetaz, P. Bayle-Guillemaud, **M. Chatenet**, F. Maillard, Pt “hollow” nanoparticles: toward the promising design of active and stable ORR electrocatalysts, *Proceeding of the Fifth European Fuel Cell Technology & Applications Conference*, **Roma** (2013) pp. 407-408.

Communications in international conferences (presenting author)

- CI-1** **M. Chatenet**, L. Geniès, M. Aurousseau, F. Andolfatto, Cathode à air en milieu alcalin – application à l’électrolyse chlore-soude, **affiche**, *Journées d’Electrochimie*, **Toulouse** (1999)

- CI-2 **M. Chatenet**, L. Geniès, R. Durand, M. Aurousseau, Catalysts for Oxygen Reduction Reaction (ORR) in alkaline media, **oral com.**, *International Society of Electrochemistry*, **Warsaw** (2000)
- CI-3 **M. Chatenet**, M. Aurousseau, R. Durand, F. Andolfatto, New bimetallic catalysts for oxygen diffusion cathode in the brine electrolysis process, **oral com.**, *International Society of Electrochemistry & the Electrochemical Society joint meeting*, **San Francisco** (2001)
- CI-4 **M. Chatenet**, B. Libby, E. L. Cussler, Composite multi-layered membranes for direct methanol fuel cells, **oral com.**, *International Society of Electrochemistry & the Electrochemical Society joint meeting*, **San Francisco** (2001)
- CI-5 **J. Marie**, S. Berton-Fabry, P. Achard, **M. Chatenet**, A. Pradourat, Highly dispersed platinum on carbon aerogels as supported catalysts for PEM fuel cell-electrodes: comparison of two different synthesis paths, **oral com.**, *7th International symposium on aerogels*, **Alexandria**, USA (2003)
- CI-6 L. Akrou, E. Chainet, **M. Chatenet**, J.-F. Fauvarque, B. Perez, I. Roche, Alkaline fuel cell using anionic membrane, **oral com. invited (keynote)**, *5th Advanced Batteries and Accumulators*, **Brno** (2004)
- CI-7 **I. Roche**, M. Bautista, F. Druart, E. Chainet, **M. Chatenet**, Development of micro-reference electrodes for use in operating PEMFC, **oral com.**, *International Society of Electrochemistry*, **Athènes** (2004)
- CI-8 **E. Peyrelade**, E. Chainet, Y. Soldo-Olivier, R. Faure, **M. Chatenet**, Enhanced CO-tolerance of carbon-supported platinum-tungsten oxide anode catalyst, **oral com.**, *International Society of Electrochemistry*, **Athènes** (2004)
- CI-9 **M. Chatenet**, R. Faure, Y. Soldo-Oivier, Nickel underpotential deposition on well defined platinum (110) surface, **oral com.**, *The Electrochemical Society*, **Honolulu** (2004)
- CI-10 **J. Bernard**, M. Boinet, **M. Chatenet**, F. Dalard, Contribution of acoustic emission technique to study the aluminium behaviour in aqueous alkaline solution, **oral com.**, *The Electrochemical Society*, **Honolulu** (2004) abstract 2282
- CI-11 J. Vondrák, B. Klápště, J. Velická, M. Sedlářiková, J. Reitera, **I. Roche**, E. Chainet, **M. Chatenet**, Electrochemical activity of manganese oxide/carbon-based electrocatalysts, **oral com. (keynote)**, *6th Advanced Batteries and Accumulators*, **Brno** (2005)
- CI-12 **M. Chatenet**, R. Faure, Y. Soldo-Olivier, Dépôt en sous-potentiel de nickel sur substrat platine en milieu sulfurique, **affiche**, *Journées d'électrochimie*, **Saint-Malo** (2005)
- CI-13 **C. Lebouin**, Y. Soldo-Olivier, P. Millet, **M. Chatenet**, R. Faure, Dépôt en sous-potentiel de palladium sur platine (111) en vue de l'étude du système Pd-H en basse dimensionnalité, **affiche**, *Journées d'électrochimie*, **Saint-Malo** (2005)
- CI-14 **J. Bernard**, M. Boinet, **M. Chatenet**, F. Dalard, Etude du comportement de l'aluminium dans les milieux alcalins concentrés par émission acoustique, **oral com.**, *Journées d'électrochimie*, **Saint-Malo** (2005)
- CI-15 **J. Bernard**, M. Boinet, **M. Chatenet**, F. Dalard, Acoustic emission coupled to RRDE measurements to characterize aluminum behaviour in aqueous alkaline solution, **oral com.**, *Eurocorr*, **Lisbonne** (2005)
- CI-16 **J. Marie**, **M. Chatenet**, S. Berton-Fabry, E. Chainet, P. Achard, Platinum supported on resorcinol-formaldehyde based carbon aerogels for PEMFC electrodes: influence of the porosity on electrocatalytic properties, **oral com.**, *ESEE*, **Toulouse** (2005)
- CI-17 **F. Fisher**, E. Guilminot, **M. Chatenet**, A. Rigacci, S. Berton-Fabry, E. Chainet, P. Achard, Nanostructured carbons from cellulose aerogels for PEMFC applications: elaboration and

- electrochemical characterisation, **oral com.**, *ESEE, Toulouse* (2005)
- CI-18 J. Marie, S. Berthon-Fabry, P. Achard, **M. Chatenet**, E. Chainet, R. Pirard, N. Cornet, Synthesis of highly porous catalytic layers for polymer electrolyte fuel cell based on carbon aerogel, **oral com.**, *The Electrochemical Society, Los Angeles* (2005) Abstract 1003
- CI-19 **M. Chatenet**, F. Micoud, E. Chaînet, Borohydride direct oxidation kinetics in sodium (hydroxide + borohydride) electrolyte on silver and gold electrocatalysts, **oral com.**, *The Electrochemical Society, Denver* (2006) Abstract 252
- CI-20 **M. Chatenet**, F. Micoud, I. Roche, E. Chainet, J. Vondrák, Kinetics of oxygen reduction in sodium (hydroxide + borohydride) electrolyte, **oral com.**, *7th Advanced Batteries and Accumulators, Brno* (2006)
- CI-21 I. Roche, E. Chainet, **M. Chatenet**, J. Vondrák, Manganese oxide/carbon-based electrocatalysts for ORR in alkaline medium: ORR mechanism, **oral com.**, *7th Advanced Batteries and Accumulators, Brno* (2006)
- CI-22 C. Lebouin, Y. Soldo-Olivier, P. Millet, **M. Chatenet**, R. Faure, Palladium underpotential deposition on platinum single crystal with (111) orientation: a study of the low dimensional Pd-H system, **affiche**, *International Society of Electrochemistry, Edinburgh* (2006)
- CI-23 I. Roche, E. Chainet, **M. Chatenet**, J. Vondrák, Manganese oxide/carbon-based electrocatalysts for ORR in alkaline medium: mechanism, **oral com.**, *The Electrochemical Society, Cancun* (2006)
- CI-24 **M. Chatenet**, Y. Soldo-Olivier, E. Chainet, R. Faure, EQCM contribution for the determination of nickel valency of electrosorption upon underpotential deposition on platinum surfaces in sulphate media, **oral com. invited (keynote)**, *5th international conference on electrocatalysis, the Electrochemical Society, Boka Kotorska* (2006) 48
- CI-25 C. Lebouin, Y. Soldo-Olivier, P. Millet, **M. Chatenet**, R. Faure, Palladium underpotential deposition on platinum single crystal with (111) orientation: a study of the low dimensional Pd-H system, **oral com.**, *5th international conference on electrocatalysis, the Electrochemical Society, Boka Kotorska* (2006) 61
- CI-26 E. Sibert, Y. Soldo-Olivier, E. Chainet, **M. Chatenet**, J. L. Hazemann, R. Faure, Cu under potential deposition on Pt(111): in situ X-ray absorption study of the sub layer, **affiche**, *5th international conference on electrocatalysis, the Electrochemical Society, Boka Kotorska* (2006) 96
- CI-27 F. Maillard, E. Guilminot, A. Corcella, F. Charlot, G. Berthomé, **M. Chatenet**, Detection of Pt^{2+} Ions and Pt Nanoparticles inside the Membrane of a used PEM Fuel Cell, **oral com.**, *The Electrochemical Society, Chicago* (2007) abstract 406
- CI-28 F. Maillard, A. Bonnefont, **M. Chatenet**, Effect of Pt-Ru/C Particles Agglomeration in CO_{ad} Monolayer Electrooxidation, **oral com.**, *The Electrochemical Society, Chicago* (2007) abstract 408
- CI-29 **M. Chatenet**, C. Iojoiu, E. Guilminot, A. Corcella, F. Maillard, F. Charlot J. Y. Sanchez, Influence of the Presence of Pt^{2+} and Pt Nanoparticles in the Membrane of used PEM Fuel Cell on the MEA Performances and Durability, **oral com.**, *The Electrochemical Society, Chicago* (2007) abstract 405
- CI-30 **M. Chatenet**, E. Guilminot, A. Corcella, F. Maillard, The Ultramicroelectrode with Cavity (UMEC) - a new Technique to Study Carbon-Supported Platinum for Proton Exchange Membrane Fuel Cell Applications, **oral com.**, *The Electrochemical Society, Chicago* (2007) abstract 1184
- CI-31 J. Marie, R. Chénitz, S. Berthon-Fabry, **M. Chatenet**, P. Achard, Carbon aerogels as

platinum support in PEMFC cathodic layer: Relation between structure and performances, **affiche**, *XIV international Sol-Gel conference*, **Montpellier** (2007)

- CI-32 **M. Chatenet**, F. Maillard, E. Guilminot, C. Iojoiu, J.-Y. Sanchez, E. Rossinot, Active layer and membrane coupled degradation upon PEMFC operation and its consequence on the performances, **oral com.**, *CARISMA European network of excellence*, **Grenoble** (2007)
- CI-33 **F. Micoud**, F. Maillard, **M. Chatenet**, A. Bonnefont, K. Krischer, Pt-M (M=W, Mo) : de nouveaux électrocatalyseurs tolérants au Co pour anodes de piles à combustible PEMFC, **oral com.**, *Journées d'Electrochimie*, **Lyon** (2007) 5.O.06
- CI-34 **C. Lebouin** C., Y. Soldo-Olivier, P. Millet, **M. Chatenet**, R. Faure, Dépôt de Pd sur Pt(111) – Etude du système Pd-H en basse dimensionalité, **affiche**, *Journées d'Electrochimie*, **Lyon** (2007) 1.P.16
- CI-35 F. Maillard, **A. Bonnefont**, **M. Chatenet**, B. Doisneau-Cottignies, H. Roussel, L. Guetaz, U. Stimming, Effet de la structure de nanoparticule de Pt-Ru/C sur l'électrooxydation du monoxyde de carbone, **affiche**, *Journées d'Electrochimie*, **Lyon** (2007) 5.P.10
- CI-36 **M. Chatenet**, Y. Soldo-Olivier, E. Chainet, R. Faure, Using the electrochemical quartz crystal microbalance as a tool to determine nickel formal partial charge number during nickel-underpotential deposition on platinum, **oral com.**, *International Society of Electrochemistry*, **Banff** (2007) Abstract 549
- CI-37 **F. Maillard**, A. Bonnefont, **M. Chatenet**, U. Stimming, Effect of Pt-Ru/C particles agglomeration in CO_{ad} monolayer electrooxidation, **oral com.**, *International Society of Electrochemistry*, **Banff** (2007) Abstract 875
- CI-38 **E. Sibert**, Y. Soldo-Olivier, C. Lebouin, **M. Chatenet**, F. Maillard, R. Faure, Underpotential deposition (UPD) of a Cu submonolayer on Pt(111) in presence of chlorides: in situ polarized XAS study, **affiche**, *International Society of Electrochemistry*, **Banff** (2007) Abstract 1029
- CI-39 **M. Chatenet**, E. Guilminot, C. Iojoiu, J.-Y. Sanchez, E. Rossinot, F. Maillard, Pt redistribution within PEMFC MEAs and its consequence on their performances, **oral com. invited (keynote)**, *The Electrochemical Society*, **Washington** (2007) abstract #392
- CI-40 **M. Chatenet**, E. Guilminot, A. Corcella, F. Maillard, Using the ultramicroelectrode with cavity (UMEC) as a tool to characterize carbon-supported platinum for proton exchange membrane fuel cell applications, **oral com.**, *8th Advanced Batteries and Accumulators*, **Brno** (2007) 245
- CI-41 **N. Job**, S. Lambert, **M. Chatenet**, C. Gommès, S. Berthon-Fabry, J. R. Regalbuto, J.-P. Pirard, Highly loaded Pt/carbon xerogel catalysts for PEM fuel cells by the Strong Electrostatic Adsorption method, **oral com.**, *3rd International Symposium on Carbon in Catalysis*, **Berlin** (2008)
- CI-42 **F. Maillard**, **M. Chatenet**, Ageing mechanism of Pt/C nanoparticles on a PEMFC, **oral com.**, *CARISMA Progress MEA 2008*, **La Grande Motte** (2008)
- CI-43 G. Parrou, M. B. Molina-Concha, **M. Chatenet**, J.-P. Diard, First insights into the mechanism of the Borohydride Oxidation Reaction (BOR) on gold from Electrochemical Impedance Spectroscopy (EIS), **affiche**, *59th Annual Meeting of the ISE*, **Seville** (2008)
- CI-44 **F. Micoud**, F. Maillard, **M. Chatenet**, Antoine Bonnefont, K. Krischer, CO electrooxidation on Pt-W surfaces, **affiche**, *59th Annual Meeting of the ISE*, **Seville** (2008)
- CI-45 **B. Molina Concha**, **M. Chatenet**, Sodium borohydride direct oxidation for Pt, Ag and alloyed Pt-Ag in sodium hydroxide electrolyte, **affiche**, *59th Annual Meeting of the ISE*, **Seville** (2008)

- CI-46 N. Job, F. Maillard, J. Marie, S. Berthon-Fabry, J.-P. Pirard, **M. Chatenet**, Electrochemical characterization of Pt/ carbon xerogel and Pt/carbon aerogel catalysts, **affiche**, 6th *International Mesosstructured Materials Symposium (IMMS 2008)*, **Namur** (2008)
- CI-47 F. H. B. Lima, D. Profeti, **M. Chatenet**, E. A. Ticianelli, E. R. Gonzalez, Mixed Pt-M monolayers deposited on Au/C for absorbed CO and ethanol electrooxidation, **oral com.**, 7th *Brazilian MRS meeting*, **Guaruja** (2008) abstract #F512
- CI-48 **M. Chatenet**, L. Dubau, N. Job, F. Maillard, The (electro)catalyst | membrane interface in the Proton Exchange Membrane Fuel Cell: similarities and differences with non-electrochemical Catalytic Membrane Reactors, **oral com. Invited (keynote)**, 9th *International Conference on Catalysis in Membrane Reactors*, Lyon, June 28th – July 2nd 2009 (ICCMR09), **Lyon** (2009)
- CI-49 F. Micoud, F. Maillard, A. Bonnefont, **M. Chatenet**, Unique CO-tolerance of Pt/WO_x Materials, **oral com.**, 215th *meeting of The Electrochemical Society*, **San Francisco** (2009) abstract #488
- CI-50 F. Maillard, B. Vion-Dury, K. Solhy, L. Dubau, **M. Chatenet**, N. Job, L. Guetaz, Degradation Mechanisms of Pt/C Electrocatalysts at the nm-scale, **oral com.**, 215th *meeting of the Electrochemical Society*, **San Francisco** (2009) abstract #504
- CI-51 F. Micoud, F. Maillard, A. Bonnefont, **M. Chatenet**, Unique CO-tolerance of Pt/WO_x Materials, **oral com.**, 7th *Spring Meeting of the ISE*, **Szczyrk** (2009) p. 92
- CI-52 G. Parrou, B. Molina Concha, **M. Chatenet**, J.-P. Diard, Mechanistic study of the Borohydride Oxidation Reaction (BOR) on gold by Electrochemical Impedance Spectroscopy (EIS), **affiche**, 7th *Spring Meeting of the ISE*, **Szczyrk** (2009) S4-P-006, p. 226
- CI-53 N. Job, S. Berthon-Fabry, **M. Chatenet**, J. Marie, M. Brigaudet, J.-P. Pirard, Electrochemical characterization of Pt/ carbon xerogel and Pt/carbon aerogel catalysts, **oral com.**, 8th *International Congress on Catalysis and Automotive Pollution Control (CAPoC8)*, **Bruxelle** (2009)
- CI-54 J. Rooke, C. Hildenbrand, S. Berthon-Fabry, R. Sexcousse, T. Budtova, **M. Chatenet**, F. Maillard, Elaboration and characterizations of platinum nanoparticles supported on cellulose-based carbon aerogel, **affiche**, *Carbon*, **Biarritz** (2009) abstract #350
- CI-55 N. Job, S. Berthon-Fabry, S. Lambert, M. Chatenet, F. Maillard, M. Brigaudet, J.-P. Pirard, Carbon xerogels as supports for catalysts and electrocatalysts, **oral com.**, *Carbon*, **Biarritz** (2009) abstract #280
- CI-56 M. Brigaudet, S. Berthon-Fabry, C. Beauger, N. Job, **M. Chatenet**, P. Achard, Study of diffusive limitations in Proton Exchange Membrane Fuel Cells (PEMFC), **oral com.**, *Carbon*, **Biarritz** (2009) abstract #395
- CI-57 A. C. Garcia, A. Diaz, E. A. Ticianelli, C. Poinignon, **M. Chatenet**, Oxygen reduction kinetics on nanostructured NiMnO_x/carbon black materials, **affiche**, 216th *ECS Meeting of the Electrochemical Society*, **Vienna** (2009) abstract #381
- CI-58 G. Parrou, **M. Chatenet**, J.-P. Diard, Electrochemical Impedance Spectroscopy Study of the Borohydride Oxidation Reaction on Gold, **oral com.**, 216th *ECS Meeting of the Electrochemical Society*, **Vienna** (2009) abstract #371
- CI-59 **M. Chatenet**, F. Lima, E. A. Ticianelli, Study of the Borohydride Oxidation Reaction on Gold in Alkaline Medium Using on-line Mass Spectrometry, **oral com.**, 216th *ECS Meeting of the Electrochemical Society*, **Vienna** (2009) abstract #354
- CI-60 B. Molina Concha, **M. Chatenet**, E. Ticianelli, F. Lima, R. de Lima, In Situ Infrared Study of the Mechanism of Borohydride Oxidation Reaction, **oral com.**, 216th *ECS Meeting of the*

Electrochemical Society, Vienna (2009) abstract #368

- CI-61** F. Micoud, F. Maillard, A. Bonnefont, **M. Chatenet**, Enhanced CO activity for Pt/WO_x materials: surface structure effects, **oral com.**, 216th ECS Meeting of the Electrochemical Society, **Vienna** (2009) abstract #3053
- CI-62** N. Job, **M. Chatenet**, F. Maillard, M. Brigaudet, C. Gommès, J.-P. Pirard, S. Berthon-Fabry, PEM fuel cell cathodes based on Pt/carbon xerogel catalysts, **oral com.**, *CESEP, Terremolinos* (2009)
- CI-63** N. Job, F. Maillard, **M. Chatenet**, C. Gommès, S. Lambert, S. Hermans, J. R. Regalbuto, J.-P. Pirard, Synthesis and characterization of highly loaded Pt/carbon xerogel catalysts prepared by the Strong Electrostatic Adsorption method, **oral com.**, *Heterogeneous catalysis, Louvain* (2010)
- CI-64** B. Vion-Dury, **M. Chatenet**, L. Guétaz, F. Maillard, Aging of Pt/C Electrocatalysts at the Micrometer Scale: An Electrochemical and Transmission Electron Microscopy Study, **oral com.**, 217th ECS Meeting of the Electrochemical Society, **Vancouver** (2010) abstract #571
- CI-65** K. Freitas, B. Concha, E. Ticianelli, **M. Chatenet**, Borohydride Oxidation on Pt-Based Electrodes: Evidence of Residence Time Effect on the Reaction Onset and Faradaic Efficiency, **oral com.**, 218th ECS Meeting of the Electrochemical Society, **Las Vegas** (2010) abstract #659
- CI-66** **M. Chatenet**, J. Rivera Zambrano, B. Molina Concha, N. Sergent, F. Lima, E. Ticianelli, Elucidation of the Borohydride Oxidation Reaction on Gold Using OLEMS, In Situ FTIR or In Situ Raman Spectroscopy, **oral com.**, 218th ECS Meeting of the Electrochemical Society, **Las Vegas** (2010) abstract #660
- CI-67** L. Dubau, J. Durst, F. Maillard, **M. Chatenet**, J. André, E. Rossinot, Influence of PEMFC Operating Conditions on the Durability of Pt₃Co/C Electrocatalysts, **oral com.**, 218th ECS Meeting of the Electrochemical Society, **Las Vegas** (2010) abstract #786
- CI-68** L. Dubau, F. Maillard, **M. Chatenet**, J. André, E. Rossinot, Degradation mechanisms of Pt₃Co/C nanoparticles in a 16-cells PEMFC stack **oral com.**, 218th ECS Meeting of the Electrochemical Society, **Las Vegas** (2010) abstract #787
- CI-69** L. Dubau, F. Maillard, **M. Chatenet**, J. André, E. Rossinot, Surface Reactivity and ORR Activity of Pt₃Co/C Electrocatalysts during PEMFC Operation, **affiche**, 218th ECS Meeting of the Electrochemical Society, **Las Vegas** (2010) abstract #859
- CI-70** J. Rooke, C. Matos, R. Sescousse, T. Budtova, S. Berthon-Fabry, R. Mosdale, **M. Chatenet**, F. Maillard, Elaboration and Characterizations of Platinum Nanoparticles Supported on Cellulose-Based Carbon Aerogel, **oral com.**, 218th ECS Meeting of the Electrochemical Society, **Las Vegas** (2010) abstract #906
- CI-71** **M. Chatenet**, M. B. Molina Concha, R. B. de Lima, F. H. B. Lima ², E. A. Ticianelli, Mechanism of the Borohydride Oxidation Reaction on gold in alkaline medium, **oral com.**, *International Symposium on Electrocatalysis - Molecular Level Approach to Modern Applications, Kloster Irsee* (2010) abstract #2
- CI-72** J. Durst, L. Dubau, F. Maillard, **M. Chatenet**, J. André, E. Rossinot, Influence of PEMFC operating conditions on the durability of Pt₃Co/C electrocatalysts, **affiche**, 60th Annual Meeting of the ISE, **Nice** (2010) abstract #1269
- CI-73** L. Dubau, F. Maillard, **M. Chatenet**, J. André, E. Rossinot, Degradation mechanisms of Pt₃Co/C electrocatalysts in a 16 cells PEMFC stack, **affiche**, 60th Annual Meeting of the ISE, **Nice** (2010) abstract #1647
- CI-74** J. F. Rivera Zambrano, B. Molina Concha, **M. Chatenet**, N. Sergent, E. Ticianelli, F. H. B.

- Lima, R. B. de Lima, In situ spectroscopic studies of the mechanism of borohydride oxidation reaction on gold electrode, **oral com.**, *60th Annual Meeting of the ISE, Nice* (2010) abstract #1658
- CI-75 A. C. Garcia, E. A. Ticianelli, **M. Chatenet**, Kinetics of oxygen reduction in presence of sodium borohydride in alkaline electrolyte, **oral com.**, *60th Annual Meeting of the ISE, Nice* (2010) abstract #912
- CI-76 N. Caqué, M. Paris, **M. Chatenet**, E. Rossinot, R. Bousquet, E. Claude, Aging analysis of a PEMFC stack using uncoated metallic bipolar plates, **oral com.**, *60th Annual Meeting of the ISE, Nice* (2010) abstract #2331
- CI-77 L. Dubau, F. Maillard, **M. Chatenet**, J. André, E. Rossinot, Nanoscale compositional changes and modification of the surface reactivity of Pt₃Co/C electrocatalysts during PEMFC operation, **oral com. invited**, *60th Annual Meeting of the ISE, Nice* (2010) abstract #1642
- CI-78 F. Maillard, L. Dubau, J. Durst, **M. Chatenet**, L. Guétaz, Surface reactivity, catalytic activity and durability of Pt₃Co/C nanoparticles in PEMFCs, **oral com.**, *International Symposium on Portable Fuel Cells, Changxing* (2010)
- CI-79 N. Caqué, M. Paris, **M. Chatenet**, E. Rossinot, R. Bousquet, E. Claude, Characterisation of uncoated stainless steel for Proton Exchange Membrane Fuel Cell bipolar plates application, **oral com.**, *Fundamentals and Developments of Fuel Cells Conference, Grenoble* (2011) abstract #S1-O4
- CI-80 N. Job, F. Maillard, J.-P. Pirard, S. Berthon-Fabry, **M. Chatenet**, Pt/carbon xerogel catalysts for PEM Fuel Cells, **oral com.**, *Fundamentals and Developments of Fuel Cells Conference, Grenoble* (2011) abstract #S2-O2
- CI-81 L. Dubau, J. Durst, F. Maillard, **M. Chatenet**, J. André, E. Rossinot, Degradation Mechanisms and Modification of the Electrocatalytic Activity for the ORR of Pt₃Co/C nanoparticles during PEMFC operation, **oral com.**, *Fundamentals and Developments of Fuel Cells Conference, Grenoble* (2011) abstract #S8-O3
- CI-82 M. Ouattara-Brigaudet, S. Berthon-Fabry, C. Beauger, **M. Chatenet**, M. Sennour, P. Achard, Comparison of platinum deposit methods on carbon aerogels used in Proton Exchange Membrane Fuel Cells (PEMFC), **affiche**, *Fundamentals and Developments of Fuel Cells Conference, Grenoble* (2011) abstract #S2-P6
- CI-83 Y. Bultel, **M. Chatenet**, J.-P. Yonnet, D. Riu, F. Meunier, P. Paris, X. Oster, L. Antoni, M. Dupont, Hychain mini-trans: training activities, **affiche**, *Fundamentals and Developments of Fuel Cells Conference, Grenoble* (2011) abstract #S5-P11.
- CI-84 E. Rossinot, J. André, A. Montaut, M. Frotey, F. Maillard, **M. Chatenet**, L. Dubau, J. Durst, G. De Moor, C. Bas, L. Flandin, T. Martin, Feedback from the MDM project: investigations in MEA degradation mechanisms, **affiche**, *Fundamentals and Developments of Fuel Cells Conference, Grenoble* (2011) abstract # S6-P5.
- CI-85 B. Vion-Dury, **M. Chatenet**, L. Guétaz, F. Maillard, F.H.B. Lima, A study about the corrosion of carbon in PEMFC catalysts by DEMS, TEM and electrochemistry, **affiche**, *Fundamentals and Developments of Fuel Cells Conference, Grenoble* (2011) abstract # S8-P8.
- CI-86 L. Dubau, J. Durst, F. Maillard, **M. Chatenet**, J. André, E. Rossinot, Influence of PEMFC operating conditions on the durability of Pt₃Co/C electrocatalysts, **affiche**, *Fundamentals and Developments of Fuel Cells Conference, Grenoble* (2011) abstract # S8-P13.

- CI-87** L. Dubau, J. Durst, F. Maillard, **M. Chatenet**, J. André, E. Rossinot, Durability of Pt₃Co/C-based cathodes in a 16 cells PEMFC stack: macro / microstructural changes and degradation mechanisms, **affiche (Prix du meilleur poster étudiant)**. *Fundamentals and Developments of Fuel Cells Conference, Grenoble* (2011) abstract # S8-P14.
- CI-88** **M. Chatenet**, L'électrocatalyse des piles à combustible basse température - des limitations des PEMFC aux promesses des DBFC, **oral com. invited (keynote) – conférence thématique du thème 5. Journées d'électrochimie, Grenoble** (2011).
- CI-89** B. Molina Concha, **M. Chatenet**, F. B. H. Lima, E. A. Ticianelli, Electrocatalysis in low-temperature fuel cells: PEMFC vs. DBFC, **oral com. invited (plenary)**. *XVIII SIBEE-Simposio Brasileiro de Electroquímica e Eletroanalítica, Bento Gonçalves, Brazil* (2011).
- CI-90** **M. Chatenet**, B. Molina Concha, L. Dubau, E. Guilminot, J. Durst, F. Maillard, Electrocatalysis in low-temperature fuel cells; from the limitations of PEMFC to the promises of DBFC, **oral com. invitee (keynote)**. *62nd Annual Meeting of the ISE, Niigata* (2011) abstract # ise110107.
- CI-91** L. Dubau, J. Durst, F. Maillard, **M. Chatenet**, J. André, E. Rossinot, Heterogeneities of aging within a PEMFC MEA, **poster**. *62nd Annual Meeting of the ISE, Niigata* (2011) abstract # ise110985.
- CI-92** J. Durst, L. Dubau, F. Maillard, **M. Chatenet**, L. Guétaz, E. Rossinot, Voltammetric dealloying of Pt₃Co C electrocatalysts: effect of the nanostructure on the catalyst performance, **poster**. *62nd Annual Meeting of the ISE, Niigata* (2011) abstract # ise1108992.
- CI-93** L. Dubau, J. Durst, L. Guétaz, F. Maillard, **M. Chatenet**, J. André, E. Rossinot, Formation of "hollow" Pt nanoparticles during PEMFC operation, **oral com..** *62nd Annual Meeting of the ISE, Niigata* (2011) abstract # ise110888.
- CI-94** B. Vion-Dury, **M. Chatenet**, V. Vivier, Presentation of an Electrochemical Dry Cell Based on Nafion for Kinetic Studies of Pt/C Nanoparticles for PEMFC, **poster**. *220th ECS Meeting of the Electrochemical Society, Boston* (2011) abstract # 949.
- CI-95** J. Durst, L. Dubau, F. Maillard, **M. Chatenet**, L. Guétaz, E. Rossinot, From Pt₃Co/C to Pt-Hollow Electrocatalysts: Investigations through Several Accelerated Aging Protocols, **poster**. *220th ECS Meeting of the Electrochemical Society, Boston* (2011) abstract # 954.
- CI-96** M. B. Molina Concha, K. S. Freitas, **M. Chatenet**, F. H. B. Lima, E. A. Ticianelli, Mechanism of the Borohydride Oxidation Reaction on platinum electrodes in alkaline medium – is platinum a faradaic inefficient BOR catalyst?, **oral com. invited (keynote)**. *220th ECS Meeting of the Electrochemical Society, Boston* (2011) abstract # 1013.
- CI-97** B. Vion-Dury, **M. Chatenet**, L. Guétaz, Determination of Aging Markers Adapted to the Study of Pt/C Nanoparticles for PEMFC, **oral com..** *220th ECS Meeting of the Electrochemical Society, Boston* (2011) abstract # 1060.
- CI-98** L. Dubau, J. Durst, F. Maillard, **M. Chatenet**, J. André, E. Rossinot, Do PEMFC Cathode Catalyst Layers Age Homogeneously upon on Site Stack Operation?, **oral com..** *220th ECS Meeting of the Electrochemical Society, Boston* (2011) abstract # 1123.
- CI-99** L. Dubau, J. Durst, L. Guétaz, F. Maillard, **M. Chatenet**, J. André, E. Rossinot, From Pt₃Co/C to Pt-Rich Hollow Particles: How Does Co Segregation Proceed during Real PEMFC Aging?, **oral com..** *220th ECS Meeting of the Electrochemical Society, Boston* (2011) abstract # 1197.
- CI-100** A. Garcia, F. Barros de Lima, E. Ticianelli, **M. Chatenet**, Evaluation of Oxygen Reduction Reaction in the Presence of Sodium Borohydride in Alkaline Electrolyte, **oral com.,** *220th ECS Meeting of the Electrochemical Society, Boston* (2011) abstract # 1558.

- CI-101** L. Dubau, J. Durst, F. Maillard, **M. Chatenet**, O. Lottin, G. Maranzana, E. Moukheiber, C. Bas, G. De-Moor, L. Flandin, J. André and E. Rossinot, Heterogeneities of performances and degradation of PEMFC MEA, **oral com. invited**, 2nd international workshop on degradation issues of fuel cells, **Thessaloniki** (2011).
- CI-102** L. Dubau, J. Durst, F. Maillard, **M. Chatenet**, L. Guétaz, J. André, E. Rossinot, Formation of “hollow” Pt nanoparticles in real PEMFC conditions and its consequences on the ORR activity, 2nd international workshop on degradation issues of fuel cells, **poster**, 2nd international workshop on degradation issues of fuel cells, **Thessaloniki** (2011).
- CI-103** J. Durst, L. Dubau, F. Maillard, **M. Chatenet**, J. André, E. Rossinot, Investigation of through-the-plane and in-the-plane heterogeneities in the cathode catalyst layers of a PEMFC, **poster**, 2nd international workshop on degradation issues of fuel cells, **Thessaloniki** (2011).
- CI-104** L. Dubau, J. Durst, F. Maillard, **M. Chatenet**, L. Guétaz, J. André, E. Rossinot, Highly dispersed Pt₃Co/C nanoparticles: correlation between the fine nanostructure and the ORR activity, **oral com.**, Electrocatalysis: Present and Future (an ELCAT meeting), **Alicante** (2011).
- CI-105** O. Lottin, N. Carême, J. Dillet, A. Lamibrac, G. Maranzana, J. André, N. Caqué, E. Rossinot, A. Montaut, S. Moutin, E. Moukheiber, C. Bas, G. De-Moor, L. Flandin, L. Dubau, J. Durst, F. Maillard, **M. Chatenet**, Diagnostic of membrane electrode assembly degradations after operation in systems, **oral com.**, World Hydrogen Energy Conference, **Toronto** (2012) abstract # 462.
- CI-106** F. Maillard, L. Dubau, J. Durst, **M. Chatenet**, L. Guétaz, J. André, E. Rossinot, Kirkendall effect-induced formation of Pt “hollow” particles from Pt₃Co/C nanoparticles in real PEMFC conditions, **oral com. invited**, ACS meeting, **San Diego** (2012) abstract # 201
- CI-107** F. Maillard, L. Dubau, J. Durst, **M. Chatenet**, J. André, E. Rossinot, Durability of bimetallic alloys in PEMC: advances and controversies, **oral com. invited**, 63rd Annual Meeting of the ISE, **Prague** (2012) abstract p. 59
- CI-108** J. Durst, F. Maillard, **M. Chatenet**, Effect of Cations on Fuel-cell Related Reactions in Acidic Media, **oral com.**, 63rd Annual Meeting of the ISE, **Prague** (2012) abstract # Ise120250, p. 59
- CI-109** L. Dubau, J. Durst, F. Maillard, **M. Chatenet**, L. Guétaz, J. André, N. Caqué, E. Rossinot, Durability of Pt₃Co/C cathode electrocatalyst during long-term real PEMFC operation, **oral com. invited**, International Workshop on Characterization and quantification of MEA degradation processes, **Grenoble** (2012) abstract p. 9
- CI-110** O. Lottin, N. Carême, J. Dillet, A. Lamibrac, G. Maranzana, J. Durst, L. Dubau, F. Maillard, M. Chatenet, L. Flandin, C. Bas, G. De Moor, A. El-Kaddouri, E. Moukheiber, A. Montaut, S. Moutin, P. Rival, N. Caqué, E. Rossinot, Multidisciplinary approach of MEA degradations in commercial PEMFC systems, **oral com.**, International Workshop on Characterization and quantification of MEA degradation processes, **Grenoble** (2012) abstract p. 12
- CI-111** M. B. Molina Concha, **M. Chatenet**, F. H. B. Lima, E. A. Ticianelli, Study of NH₃BH₃ oxidation reaction on gold electrodes by in situ Fourier Transform InfraRed Spectroscopy and Differential Electrochemical Mass Spectrometry, **oral com. invited (keynote)**, ABAF 13, Brno (2012) abstract # 14

- CI-112 P.-Y. Olu, M. Rouhet, **M. Chatenet**, A. Bonnefont, E. Savinova, Study of the BH_4^- electrooxidation mechanism on Pt catalyst using rotating ring-disk electrode (RRDE), **oral com.**, ABAF 13, Brno (2012) abstract # 16
- CI-113 A. Lamibrac, J. Durst, D. Spornjak, G. Maranzana, J. Dillet, S. Didierjean, O. Lottin, F. Maillard, L. Dubau, **M. Chatenet**, R. Mukundan, R. Borup, Internal Currents, CO_2 Emissions and Decrease of the Pt Electrochemical Surface Area during Fuel Cell Start-Up and Shut-Down, **oral com.**, PRiME ECS meeting, Hawaii (2012) abstract # 1343
- CI-114 J. Durst, A. Lamibrac, L. Dubau, F. Maillard, **M. Chatenet**, J. Dillet, G. Maranzana, O. Lottin, Relation between Local Loss of Performances in a Segmented PEMFC and Local Degradations of the Pt/C Cathode Catalyst, **oral com.**, PRiME ECS meeting, Hawaii (2012) abstract # 1345
- CI-115 M. B. Molina Concha, **M. Chatenet**, F. H. B. Lima, E. A. Ticianelli, Study of NH_3BH_3 electrooxidation reaction on gold electrodes by *in situ* Fourier Transform InfraRed Spectroscopy and on-line Differential Electrochemical Mass Spectrometry, **oral com. invited**, International Symposium on Electrocatalysis: New Concepts and Approaches, Salinas do Maragogi – Brazil (2012) abstract # FUE-01
- CI-116 F. Maillard, L. Dubau, J. Durst, **M. Chatenet**, M. Lopez-Haro, L. Guétaz, P. Bayle-Guillemaud, J. André, N. Caqué, E. Rossinot, Formation of Pt Hollow Nanoparticles in PEMFC Through the Nanoscale Kirkendall Effect, **oral com. invited**, International Symposium on Electrocatalysis: New Concepts and Approaches, Salinas do Maragogi – Brazil (2012) abstract # STR-03
- CI-117 A. Garcia, J. J. Linares, E. Ticianelli, C. Cremers, **M. Chatenet**, Ethanol tolerant manganese oxide electrocatalysts for the oxygen reduction reaction in alkaline medium, **oral com. invited**, 223rd ECS Meeting of the Electrochemical Society, Toronto (2013) abstract # 2633.
- CI-118 A. Bach Delpuech, C. Cremers, K. Pinkwart, J. Tübke, **M. Chatenet**, Ethanol oxidation reaction (EOR) on Pt/C and Pt-Rh/C electrocatalysts: DEMS study, **poster**, 2nd International Conference on Materials for Energy: EnMat II, Karlsruhe (2013) abstract # 1.01-09.
- CI-119 A. Zubiaur, **M. Chatenet**, F. Maillard, S. Lambert, J.-P. Pirard, N. Job, The multiple SEA method: a method to synthesize Pt/carbon xerogel catalysts for Proton Exchange Membrane Fuel Cells (PEMFC), **oral com.**, Fundamentals and Developments of Fuel Cells Conference, Karlsruhe (2013) P032
- CI-120 L. Dubau, L. Castanheira, **M. Chatenet**, F. R. Nikkuni, E. A. Ticianelli, F. Maillard “Instability of carbon-supported Pt nanoparticles in model PEMFC environment: effect of intermediate characterizations, gas atmosphere and electrolyte”, **oral com. invited**, 59th International Conference of analytical sciences and spectroscopy, June 25-28th 2013, Mont-Tremblant, Canada
- CI-121 F. R. Nikkuni, Edson A. Ticianelli, L. Dubau, **M. Chatenet**, Identical Location Transmission Electron Microscopy in Polymer Electrolyte Environment – Application to the degradation of Pt/C and $\text{Pt}_3\text{Co}/\text{C}$ electrocatalysts under accelerated aging tests, **oral com.**, 224th ECS Meeting of the Electrochemical Society, San Francisco (2013) abstract # 1556.
- CI-122 L. Dubau, M. Lopez-Haro, J. Durst, L. Castanheira, **M. Chatenet**, P. Bayle-Guillemaud, L. Guetaz, F. Maillard, Pt-Based Nanoparticles and Carbon to the Test of PEMFC Operation, **oral com. invited (keynote)**, 224th ECS Meeting of the Electrochemical Society, San Francisco (2013) abstract # 1443.

- CI-123 J. Durst, M. Lopez-Haro, P. Bayle-Guillemaud, L. Guetaz, Y. Soldo-Olivier, **M. Chatenet**, F. Maillard, Probing structural changes of Pt₃Co nanocatalysts by EELS and ex/in situ XAS measurement, **oral com.**, 224th ECS Meeting of the Electrochemical Society, **San Francisco** (2013) abstract # 1396.
- CI-124 **M. Chatenet**, B. Molina Concha, C. Ribeiro, P.-Y. Olu, Electrocatalysis of direct borohydride fuel cells – from the limitations to the promises, **oral com. invited**, 7th Bishop's Lodge Workshop: Materials for Energy Conversion, **Santa Fee** (2013) abstract# 21.
- CI-125 **M. Chatenet**, Electrocatalysis of direct borohydride fuel cells – from the limitations to the promises, **oral com. invited**, 2nd lectures in electrochemistry, **Alicante** (2013) abstract# 8.
- CI-126 A. Bach Delpeuch, C. Cremers, K. Pinkwart, J. Tübke, **M. Chatenet**, DEMS study of the ethanol oxidation reaction (EOR) on Pt/C and Pt₃Rh₁/C electrocatalysts at room temperature, **poster**, Arbeitsgemeinschaft Elektrochemischer Forschungsinstitutionen seminar, **Bochum** (2013).
- CI-127 L. Dubau, M. Lopez-Haro, L. Guetaz, P. Bayle-Guillemaud, **M. Chatenet**, F. Maillard, Pt “hollow” nanoparticles: toward the promising design of active and stable ORR electrocatalysts, **oral com.**, Fifth European Fuel Cell Technology & Applications Conference, **Roma** (2013) abstract # EFC13252.
- CI-128 A. Zubiaur, **M. Chatenet**, F. Maillard, S. D. Lambert, J.-P. Pirard, N. Job, Synthesis of Pt/Carbon Xerogel Electrocatalysts for PEM Fuel Cells by the Multiple SEA Method, **poster**, Journée scientifique GEPROC 2013 Procédés et Matériaux durables, Université de Liège, (15 novembre 2013)
- CI-129 A. Bach Delpeuch, C. Cremers, M. Chatenet, J. Tübke, DEMS study: Ethanol and acetaldehyde stripping on Pt/C electrocatalyst at room temperature, **oral com.**, 15th Topical Meeting of the International Society of Electrochemistry, **Niagara falls** (2014) p. 54.
- CI-130 F. Maillard, L. Dubau, **M. Chatenet**, J. Durst, M. Lopez-Haro, L. Guétaz, P. Bayle-Guillemaud, Making Pt more active for the oxygen reduction reaction via “hollow” nanostructures, **oral com. invited**, 6th ElecNano, **Paris** (2014).
- CI-131 L. Dubau, M. Lopez-Haro, J. Durst, L. Guétaz, P. Bayle-Guillemaud, **M. Chatenet**, F. Maillard, Beyond Conventional Electrocatalysts: “Hollow” Nanoparticles for Improved and Sustainable Oxygen Reduction Reaction Activity, **oral com. Invited (keynote)**, 15th International Conference Advanced Batteries, Accumulators and Fuel Cells, **Brno** (2014).
- CI-132 F. Maillard, L. Dubau, **M. Chatenet**, J. Durst, M. Lopez-Haro, L. Guétaz, P. Bayle-Guillemaud, Making Pt more active for the oxygen reduction reaction via “hollow” nanostructures, **oral com. invited**, 65th Annual Meeting of the International Society of Electrochemistry, **Lausanne** (2014) abstract #140263.
- CI-133 P.-Y. Olu, A. Bonnefont, E. R. Savinova, **M. Chatenet**, Towards a borohydride oxidation reaction mechanism on Pt and Au surface – an experimental and modelling study, **oral com. invited (keynote)**, 65th Annual Meeting of the International Society of Electrochemistry, **Lausanne** (2014) abstract #140263.
- CI-134 A. Bach Delpeuch, C. Cremers, M. Chatenet, J. Tübke, Effect of the presence of adsorbates on the initiation of the ethanol oxidation reaction on Pt/C and Pt-based Rh and Sn bi- and tri-metallic electrocatalysts: A DEMS Study, **oral com.**, GDCh Electrochemistry 2014, **Mainz** (2014).
- CI-135 S. Berthon-Fabry, L. Dubau, Y. Ahmad, K. Guerin, M. Chatenet, Fluorinated Pt/carbon aerogels as electrocatalysts with improved corrosion-resistance for Proton Exchange

- Membrane Fuel Cell, **oral com.**, *6th international conference on Fundamental and Development of Fuel Cells 2015*, **Toulouse** (2015) abstract #36.
- CI-136** L. Testut, G. Lainé, S. Berthon-Fabry, L. Guetaz, G. Cognard, M. Chatenet, F. Maillard, S. Cavaliere, D. Jones, C. Beauger, Doped (Nb, Ta and V) titanium oxide as catalyst support for proton exchange membrane fuel cell (PEMFC) cathode, **oral com.**, *6th international conference on Fundamental and Development of Fuel Cells 2015*, **Toulouse** (2015) abstract #67.
- CI-137** L. Dubau, L. Castanheira, **M. Chatenet**, F. Maillard, J. Dillet, G. Maranzana, S. Abbou, O. Lottin, G. De Moor, A. El Kaddouri, C. Bas, L. Flandin, E. Rossinot, N. Caqué, Heterogeneities of Ageing in a PEMFC Stack: Links Between Membrane Pinholes, Carbon Corrosion and End-of-Life, **oral com.**, *227th ECS Meeting of the Electrochemical Society*, **Chicago** (2015) abstract #1541.
- CI-138** S. Pylypko, **M. Chatenet**, M. Cretin, U. Demirci, Synthesis and Characterization of Sodium Octahydrotriborate NaB_3H_8 , a Potential Fuel for Direct Liquid-Fed Fuel Cell, **oral com.**, *ECS Conference on Electrochemical Energy Conversion & Storage with SOFC–XIV*, **Glasgow** (2015) abstract #51757.
- CI-139** D. C. Oliveira, **M. Chatenet**, M. H. B. Lima, High Performance of Carbon-Supported Nickel-Platinum Nanocatalysts for Hydrazine Electrooxidation in Alkaline Electrolyte, **oral com.**, *ECS Conference on Electrochemical Energy Conversion & Storage with SOFC–XIV*, **Glasgow** (2015) abstract #53871.
- CI-140** P.-Y. Olu, A. Bonnefont, M. Rouhet, S. Bozdech, E. R. Savinova, N. Job, **M. Chatenet**, Dual role of hydroxide adsorption for borohydride electrooxidation reaction on Platinum, **oral com.**, *17th Topical Meeting of the International Society of Electrochemistry*, **Saint Malo** (2015) abstract #Mon s1c17:50.
- CI-141** S. Pylypko, **M. Chatenet**, M. Cretin, U. Demirci, Synthesis and characterization of sodium octahydrotriborate NaB_3H_8 , a potential fuel for direct liquid-fed fuel cell, **oral com.**, *5th European PEFC and H_2 Forum*, **Lucern** (2015) abstract #B1305.
- CI-142** **M. Chatenet**, L. Dubau, J. Durst, L. Castanheira, F. Maillard, A. Lamibrac, J. Dillet, G. Maranzana, O. Lottin, A. El Kaddouri, G. De Moor, C. Bas, L. Flandin, E. Rossinot, and N. Caqué, Various Scales of Aging Heterogeneities upon PEMFC Operation: A Link Between Local MEA Materials Degradation and the Cell Performance, **oral com. invited (plenary)**, *228th ECS Meeting of the Electrochemical Society*, **Phoenix** (2015) abstract #1305.
- CI-143** **M. Chatenet**, P. Y. Olu, A. Bonnefont, N. Job, E. R. Savinova, Experimental and Modelling Insights into the Borohydride Electrooxidation Reaction Mechanism at Platinum Electrodes, **oral com.**, *228th ECS Meeting of the Electrochemical Society*, **Phoenix** (2015) abstract # 1237.
- CI-144** A. Zadick, **M. Chatenet**, L. Dubau, A. Serov, P. Atanassov, U. Demirci, Instability of Commercial Pt/C and Pd/C Electrocatalysts in Alkaline Media, **oral com.**, *228th ECS Meeting of the Electrochemical Society*, **Phoenix** (2015) abstract #1382.
- CI-145** D. C. de Oliveira, W. J. Paschoalino, **M. Chatenet**, E. A. Ticianelli, F. H. B. de Lima, Borohydride Electro-Oxidation on Ni-Based Electrocatalysts: Investigation of Electrocatalytic Activity and Hydrolysis Process, **oral com.**, *228th ECS Meeting of the Electrochemical Society*, **Phoenix** (2015) abstract #1234.
- CI-146** D. C. de Oliveira, F. H. B. de Lima, **M. Chatenet**, Electro-oxidation of hydrazine on Ni and Co-based electrocatalysts: An on-line DEMS study, **oral com.**, *XX SIBEE*, **Uberlandia** (2015).

- CI-147** C. Beauger, L. Testut, G. Ozouf, S. Berthon-Fabry, G. Cognard, **M. Chatenet**, F. Maillard, S. Cavaliere, D. Jones, L. Guetaz, P.A. Jacques, A. Mosdale, R. Mosdale, SURICAT, a project dedicated to stable PEMFC catalyst supports, *European Fuel Cell Technology & Applications Conference - Piero Lunghi Conference*, **oral com.**, **Naples, Italy** (2015) abstract # EFC15040.
- CI-148** Y. Ahmad, N. Batisse, M. Dubois, K. Guérin, F. Labbé, R. Metkemeijer, S. Berthon-Fabry, B. Molina Concha, F. Maillard, L. Dubau, R. Chattot, **M. Chatenet**, Fluorination of carbon based electrocatalysts for enhanced durability of PEMFC, *Congrès français SFEC*, **oral com.**, **Carqueiranne** (2016)
- CI-149** Y. Ahmad, S. Berthon-Fabry, L. Dubau, K. Guerin, **M. Chatenet** First insight into fluorinated Pt/carbon aerogels as more corrosion-resistant electrocatalysts for Proton Exchange Membrane Fuel Cells Cathodes, *Nanomaten*, **oral com.**, **Paris** (2016)
- CI-150** F. Labbé, Y. Ahmad, B. Molina Concha, **M. Chatenet**, R. Metkemeijer, S. Berthon-Fabry, Carbonaceous materials coated with tin dioxide as catalyst supports for proton exchange membrane fuel cells, *MRS*, **oral com.**, **Boston** (2016)
- CI-151** S. Berthon-Fabry, B. Molina Concha, F. Maillard, L. Dubau, R. Chattot, Y. Ahmad, N. Batisse, M. Dubois, K. Guérin, F. Labbé, R. Metkemeijer, **M. Chatenet**, Durability of carbon supports for PEMFC application. Influence of the degree of graphitization and effect of fluorination, *67th Annual Meeting of the International Society of Electrochemistry*, **oral com.**, **The Hague** (2016) abstract # (Tue s07)09:50.
- CI-152** D. Barsuk, A. Zadik, K. Georgarakis, N. T. Panagiotopoulos, **M. Chatenet**, Y. Champion, A. Moreira Jorge, Novel integral nanoporous silver for anode catalytic applications in alkaline fuel cells, *23rd International Symposium on Metastable, Amorphous and Nanostructured Materials (ISMANAM 2016)*, **oral com.**, **Nara, Japan** (2016) abstract # 183-O12.
- CI-153** V. L. Oliveira, E. Sibert, Y. Soldo-Olivier, E. A. Ticianelli, **M. Chatenet**, Electrochemical oxidation of borohydride anion on PdML/Pt(111), *International symposium on Electrocatalysis: A key of sustainable society (ECAT2016)*, **oral com.**, **Kanagawa, Japan** (2016) abstract # O2-12.
- CI-154** J. Durst, L. Castanheira, L. Dubau, F. Maillard, **M. Chatenet**, Durability issues in proton-exchange membrane fuel cells: insights from systems operated on the field and model accelerated stress-tests, *International symposium on Electrocatalysis: A key of sustainable society (ECAT2016)* **oral com.** **invited**, **Kanagawa, Japan** (2016) abstract # I1-1.
- CI-155** P.-Y. Olu, N. Job, **M. Chatenet**, Uncovering borohydride oxidation reaction (BOR) mechanism using various platinum model electrodes, *International symposium on Electrocatalysis: A key of sustainable society (ECAT2016)*, **oral com.**, **Kanagawa, Japan** (2016) abstract # 01-23.
- CI-156** F. Labbé, Y. Ahmad, K. Guérin, B. Molina Concha, **M. Chatenet**, R. Metkemeijer, S. Berthon-Fabry, Carbon aerogels coated with tin dioxide as catalyst supports for proton exchange membrane fuel cells, *International Seminar on Aerogels (ISA3 2016)*, **poster**, **Sophia Antipolis** (2016).
- CI-157** S. Berthon-Fabry, F. Labbé, R. Metkemeijer, Y. Ahmad, N. Batisse, M. Dubois, K. Guérin, B. Molina Concha, F. Maillard, L. Dubau, R. Chattot, **M. Chatenet**, Fluorination: a new way to enhance the durability of carbon supports for PEMFC application, *230th Meeting of the Electrochemical Society*, **oral com.**, **Honolulu** (2016) abstract # 2587.

- CI-158** P.-Y. Olu, A. Bonnefont, N. Job, E. R. Savinova, **M. Chatenet**, Borohydride electrooxidation at platinum electrodes: experimental and modelling insights, *International Discussion on Hydrogen Energy and Applications (IDHEA 2016)*, **oral com. invited**, **Nantes** (2016)
- CI-159** **M. Chatenet**, Degradation of carbon-supported metal nanoparticle electrocatalysts in conditions mimicking liquid-fed alkaline fuel cell environment, *Beijing Forum 2016 on Electrochemical Frontier*, **oral com. invited**, **Wuhan, China** (2016)
- CI-160** Y. Ahmad, **K. Guérin**, L. Dubau, **M. Chatenet**, S. Berthon-Fabry, Proton Exchange Membrane Fuel Cell With Enhanced Durability Using Fluorinated Carbon As Electrocatalyst, 11th European Space Power Conference, **oral com.**, **Thessaloniki** (2016).
- CI-161** L. Dubau, J. Durst, L. Castanheira, F. Maillard, A. Lamibrac, J. Dillet, G. Maranzana, O. Lottin, A. El Kaddouri, G. De Moor, C. Bas, L. Flandin, E. Claude, **M. Chatenet**, Insights into on-the-field PEMFC degradation: linking cell performance to local materials degradation, *Fundamentals & Development of Fuel Cells (FDFC 2017)*, **oral com. invited**, **Stuttgart, Germany** (2017) THU_2_1
- CI-162** A. Zadick, C. Lafforgue, L. Dubau, **M. Chatenet**, Degradation mechanisms of metal-based carbon-supported electrocatalysts for alkaline fuel cells: similarities and differences compared to acidic fuel cells, *Fundamentals & Development of Fuel Cells (FDFC 2017)*, **oral com. invited**, **Stuttgart, Germany** (2017) TUE_2_4
- CI-163** **V. Caldeira**, J. Thiel, F. Lacoste, **M. Chatenet**, L. Dubau, Internal Morphological Evolution of Negative Electrodes Materials in Secondary Alkaline Zn/Ni Batteries, *231st Meeting of the Electrochemical Society*, **oral com.**, **New Orleans** (2017) abstract A01-0051
- CI-164** **B. Molina Concha**, Y. Ahmad, N. Batisse, M. Dubois, K. Guérin, S. Berthon-Fabry, F. Maillard, L. Dubau, **M. Chatenet**, Fluorination surface treatment to mitigate carbon corrosion and improve the durability of Pt electrocatalysts in Proton-exchange Membrane Fuel Cells, *20th Topical ISE Meeting*, **oral com.**, **Buenos Aires** (2017) abstract Tue s2-15:40
- CI-165** C. Lafforgue, A. Zadick, F. R. Nikkuni, L. Dubau, F. Maillard, **M. Chatenet**, Comparison of the aging mechanisms of carbon-supported electrocatalysts in polymer versus liquid aqueous electrolytes: an identical-location transmission electron microscopy (IL-TEM) study, *21st International Conference on Solid State Ionics*, **oral com. invited**, **Padova, Italy** (2017) abstract I-14
- CI-166** **F. Labbé**, Y. Ahmad, K. Guerin, B. Molina Concha, **M. Chatenet**, R. Metkemeijer, S. Berthon-Fabry, Carbonaceous materials coated with tin dioxide nanoparticles as catalyst supports for proton exchange membrane fuel cells, *5th International Conference on Multifunctional, Hybrid and Nanomaterials*, **oral com.**, **Lisbon, Portugal** (2017) abstract SYM4.44
- CI-167** **K. Guérin**, N. Batisse, M. Dubois, B. Molina Concha, F. Maillard, **M. Chatenet**, F. Labbé, R. Metkemeijer, S. Berthon-Fabry, Durability of carbon based electrocatalysts for PEMFC application. Influence of the graphitization level and fluorination treatment, *Carbon 2017*, **oral com.**, **Melbourne, Australie** (2017) abstract p. 263
- CI-168** G. Cognard, G. Ozouf, C. Beauger, L. Dubau, **M. Chatenet**, **F. Maillard**, Innovative Corrosion Resistant Catalysts and Supports For Proton-Exchange Membrane Fuel Cell Cathodes, *European Fuel Cell Car Workshop*, **oral com.**, **Orléans, France** (2017) March 1st 15:15
- CI-169** P.-Y. Olu, G. Braesch, **A. Bonnefont**, E. R. Savinova, **M. Chatenet**, Kinetic Modeling of the Borohydride Oxidation Reaction (BOR) at Gold and Platinum Electrodes, *232nd meeting*

of the Electrochemical Society, **oral com. invited (keynote)**, National Harbor, USA (2017) abstract 1606

- CI-170** R. M. E. Hjelm, Y. Garsany, R. W. Atkinson III, R. O. Stroman, K. Swider-Lyons, C. Lafforgue, **M. Chatenet**, Sodium borohydride oxidation on Pt and/or Pd-based electrodes in hydrogen peroxide direct borohydride fuel cells, 232nd ECS of the Electrochemical Society, **oral com.**, National Harbor, USA (2017) abstract 1614
- CI-171** M. Chatenet, P.-Y. Olu, G. Braesch, A. Bonnefont, E. R. Savinova, NaBH₄ concentration effects on the borohydride oxidation reaction (BOR) efficiency and mechanism at gold and platinum electrodes, 68th Annual Meeting of the International Society of Electrochemistry ISE, **oral com.**, Providence, USA (2017) abstract MO-S06 10:10
- CI-172** F. Labbé, Y. Ahmad, B. Molina Concha, K. Guerin, **M. Chatenet**, R. Metkemeijer, S. Berthon-Fabry, Tin Dioxide Coated Carbon Materials for Extended Lifetime of Cathodic Electrocatalysts for PEMFC, 68th Annual Meeting of the International Society of Electrochemistry ISE, **oral com.**, Providence, USA (2017) abstract MO-S06 15:20
- CI-173** R. Blanchard, A. Mantoux, **M. Chatenet**, Homogeneous catalysis and redox shuttle for non-aqueous Li-O₂ cathode, 68th Annual Meeting of the International Society of Electrochemistry ISE, **oral com.**, Providence, USA (2017) abstract TU-S12 17:20
- CI-174** V. Caldeira, J. Thiel, F. Lacoste, **M. Chatenet**, L. Dubau, Improving Negative Electrodes in Secondary Alkaline Zn/Ni Batteries, 68th Annual Meeting of the International Society of Electrochemistry ISE, **oral com.**, Providence, USA (2017) abstract FR-S12 09:30
- CI-175** M. Chatenet, C. Lafforgue, L. Dubau, F. Maillard, Influence of the nature of the alkaline electrolyte on the durability of platinum-based carbon-supported electrocatalysts for direct liquid alkaline fuel cells, 68th Annual Meeting of the International Society of Electrochemistry ISE, **poster**, Providence, USA (2017) abstract S06-002
- CI-176** R. Chattot, T. Asset, F. Micoud, C. Nayoze-Coynel, L. Dubau, F. Maillard, M. Chatenet, Platinum-based PEMFC electrodes – can electrodes with low Pt loading be durable?, 233rd meeting of the Electrochemical Society, **oral com. invited (keynote - tutorial)**, Seattle, USA (2018) abstract I01-1587
- CI-177** C. Lafforgue, **M. Chatenet**, R. W. Atkinson III, K. Swider-Lyons, H. Miller, D. R. Dekel, Investigation of Pd and Pd-CeO₂ Based Carbon-Supported Electrocatalysts for the Electrooxidation of Borohydride in Direct Borohydride Fuel Cell, 233rd meeting of the Electrochemical Society, **oral com.**, Seattle, USA (2018) abstract I04-1727
- CI-178** T. Asset, Y. Ahmad, F. Labbé, N. Batisse, M. Dubois, K. Guerin, S. Berthon-Fabry, R. Metkemeijer, L. Dubau, F. Maillard, **M. Chatenet**, Electrochemical Stability of Pt Nanoparticles Supported on a Wide Library of Carbon Supports, Either Used Bare, or Modified By Fluorination or Tin Oxide Deposits, 233rd meeting of the Electrochemical Society, **oral com.**, Seattle, USA (2018) abstract I04-1733
- CI-179** C. Lafforgue, L. Dubau, F. Maillard, D. R. Dekel, M. Chatenet, Durability of Platinum-Based Carbon-Supported Electrocatalysts in Liquid Versus Solid Polymer Alkaline Electrolytes, 233rd meeting of the Electrochemical Society, **oral com.**, Seattle, USA (2018) abstract I04-1778
- CI-180** C. Lafforgue, L. Dubau, F. Maillard, **M. Chatenet**, Instability and Degradation Mechanism of Platinum-Group Metal (PGM)-Based Carbon Supported Electrocatalysts in Alkaline Medium, 233rd meeting of the Electrochemical Society, **poster**, Seattle, USA (2018) abstract Z01-2539

- CI-181** D.A. Finkelstein, P. Bonin, M. Chatenet, Dichromate Flow Batteries - A Breakthrough Grid-Level Energy Storage Technology, *IRES*, **poster, Dusseldorf, Allemagne** (2018) abstract 266
- CI-182** J. André, N. Caqué, E. Rossinot, E. Claude, M. Chatenet, L. Dubau, F. Maillard, L. Flandin, C. Bas, G. De Moor, O. Lottin, G. Maranzana, Axane commitment for a sustainable, reliable, and field proven power source through partnership with laboratories and design efforts, *IHTEC*, **oral com., Alanya, Turquie** (2018) abstract #135
- CI-183** V. Caldeira, J. Thiel, F. R. Lacoste, L. Dubau, M. Chatenet, Revealing a self-healing mechanism occurring in zinc-based negative electrodes for alkaline batteries, *Second International Zn-Air Battery Workshop, IZABW2*, **oral com., Trondheim, Norway** (2018) abstract # Wednesday April 11th, 14:00
- CI-184** M. Chatenet, When heterogeneous catalysis drives innovation in fuel cell electrocatalysis, *PREPA12*, **oral com. invited (plenary), Louvain la Neuve, Belgique** (2018) abstract IL01
- CI-185** C. Niether S. Faure, A. Bordet, J. Deseure, J. Carrey, B. Chaudret, A. Rouet, M. Chatenet, Magnetic heating of FeC core Ni shell nanoparticles as an efficient means to enhance alkaline water electrolysis, *International Symposium on Electrocatalysis*, **oral com. invited, Szczyrk, Pologne** (2018) abstract p. 11
- CI-186** A.G. Oshchepkov, A. Bonnefont, G. Braesch, M. Chatenet, E.R. Savinova, The Influence of Surface State on the Electrocatalytic Activity of Ni in Alkaline Media, *International Symposium on Electrocatalysis*, **oral com., Szczyrk, Pologne** (2018) abstract p. 118
- CI-187** V. L. Oliveira, Y. Soldo-Olivier, E. A. Ticianelli, M. Chatenet, Eric Sibert, Tuning borohydride electro-oxidation using Pd layers on Pt(111), *14th International Fischer Symposium*, **oral com., Kloster Seeon, Allemagne** (2018)
- CI-188** R. M. E. Hjelm, R. W. Atkinson III, Y. Garsany, R. O. Stroman, K. Swider-Lyons, C. Lafforgue, M. Chatenet, Sodium Borohydride Oxidation on Varied Anode Compositions in a Hydrogen Peroxide-Direct Borohydride Fuel Cell, *Aimes ECS meeting 2018*, **oral com., Cancun, Mexico** (2018) abstract 113113
- CI-189** G. Braesch, C. Lafforgue, E. Savinova, A. Bonnefont, G. Maranzana, M. Chatenet, Pros and cons of direct borohydride fuel cells: an electrocatalysis and electrocatalysts prospect, *Fundamentals & Development of Fuel Cells (FDFC 2019)*, **oral com. Invited (keynote), Nantes** (2019)
- CI-190** M. Trégaro, F. Maillard, C. Geantet, M. Chatenet, Anode electrocatalysts for the electrochemical purification and compression of hydrogen, *Fundamentals & Development of Fuel Cells (FDFC 2019)*, **oral com., Nantes** (2019)
- CI-191** C. Lafforgue, F. Maillard, L. Dubau, M. Chatenet, Shedding light on the degradation mechanism of PGM based carbon-supported electrocatalysts in alkaline media, *Fundamentals & Development of Fuel Cells (FDFC 2019)*, **oral com., Nantes** (2019)
- CI-192** V. Gatard, C. Niether, S. Faure, A. Bordet, J. Deseure, J. Carrey, B. Chaudret, A. Rouet, M. Chatenet, Alkaline water electrolysis enhanced by an alternative magnetic field: promises and bottlenecks, *25th Topical ISE Meeting of the International Society of electrochemistry*, **oral com. Invited, Toledo, Spain** (2019) Mon-s2-9:20
- CI-193** S. Ould Amara, M. Chatenet, S. Didierjean, J. Dillet, G. Maranzana, Operating Heterogeneities Along a Direct Borohydride Fuel Cell, *25th Topical ISE Meeting of the International Society of electrochemistry*, **oral com. Toledo, Spain** (2019) Mon-s2-11:40
- CI-194** G. Cognard, F. Claudel, L. Sola-Hernandez, G. Ozouf, C. Beauger, M. Chatenet, L. Dubau, F. Maillard, Benefits and Limitations of Metal-Oxide Supports in Proton-exchange

Membrane Fuel Cells and Water Electrolyzers, 235th Meeting of the Electrochemical Society, **oral com. Invited (keynote)**, Dallas, USA (2019) abstract L04-1972

CI-195 **M. Chatenet**, Durability of carbon-supported nanostructured electrocatalysts in alkaline environments: more noble is not necessarily more stable! *Insights into Gas Diffusion Electrodes: From Fundamentals to Industrial Applications*, **oral com. Invited (plenary)**, Magdeburg, Allemagne (2019)

CI-196 V. Caldeira, L. Dubau, J. Thiel, **M. Chatenet**, Improving Zinc Porous Electrode Architecture for Secondary Alkaline Battery, *Batteries Event 2019*, **oral com.**, Nice (2019) abstract # Wednesday october 23rd, 11:45

Communications in national conferences

CN-1 **M. Chatenet**, M. Aurousseau, R. Durand, Deux utilisations non classiques de l'électrode disque-anneau (EDAT) : mesure de coefficient de diffusion et étude de réaction sur nanoparticules, **affiche**, Société chimique de France, Grenoble (1999)

CN-2 C. Lebouin, Y. Soldo-Olivier, P. Millet, **M. Chatenet**, R. Faure, Dépôt en sous potentiel de palladium sur monocristaux de platine : étude du système Pd-H en basse dimensionnalité, **oral com.**, *Electrochimie dans les nanosciences – Société chimique de France*, Paris (2006) CO18

CN-3 E. Guilminot, A. Corcella, F. Maillard, **M. Chatenet**, L'ultramicroélectrode à cavité : un outil performant pour la caractérisation d'électrocatalyseur nanoparticules de Pt/C de piles à combustible basse température, **oral com.**, *Electrochimie dans les nanosciences – Société chimique de France*, Paris (2006) A14

CN-4 M. Boinet, D. Marlot, A. Proust, J. C. Lenain, J. Bernard, **M. Chatenet**, F. Dalard, S. maximovitch, G. Denuault, R. Nogueira, F. Huet, Coupling of Acoustic Emission and Electrochemical Techniques, **oral com.**, EMCR, Paris (2006)

CN-5 M. B. Molina-Concha, **M. Chatenet**, J.-P. Diard, Etude du mécanisme d'électrooxydation de borohydrure sur électrode tournante d'or, **oral com. et affiche**, XX^{ème} forum sur les impédances électrochimiques, Paris (2007) communication matinale #8

CN-6 F. Maillard, **M. Chatenet**, Electrocatalyse et vieillissement des matériaux dans une PEMFC, **oral com. invited**, Journées thématiques de la société française de thermique - Piles à combustible à membrane PEMFC, Modélisation et retour d'expérience, Grenoble (2008)

CN-7 G. Parrou, **M. Chatenet**, J.-P. Diard, Etude de l'électrooxydation de NaBH₄ sur électrode à disque tournant d'or par spectroscopie d'impédance électrochimique – Vers un mécanisme à plusieurs étapes (E) successives, **oral com. et affiche**, XXI^{ème} forum sur les impédances électrochimiques, Paris (2008) communication matinale #2

CN-8 G. Parrou, M. B. Molina-Concha, **M. Chatenet**, J. P. Diard, Etude du mécanisme d'électrooxydation de borohydrure sur électrode tournante d'or par spectroscopie d'impédance électrochimique, **affiche**, Journées de printemps de la Société chimique de France - section Rhône-Alpes, Grenoble (2008)

CN-9 M. B. Molina-Concha, **M. Chatenet**, Electrooxydation du borohydrure de sodium sur électrodes de Pt, Ag et alliages Pt-Ag en milieu alcalin, **affiche**, Journées de printemps de la Société chimique de France - section Rhône-Alpes, Grenoble (2008)

Invited seminars

SI-1 **M. Chatenet**, Electrocatalysis applied to fuel cells, University of Minnesota, Minneapolis

(2003)

- SI-2 **M. Chatenet**, Les piles à combustible basse température, *Séminaire annuel des enseignants de physique-chimie du secondaire*, **Grenoble** (2004)
- SI-3 **M. Chatenet**, The electrocatalysis of oxygen electroreduction: from the basics to the industrial processes, *VINCI School 2006: Electrocatalysis, Materials in Energy Saving, Sensing, Electrosynthesis and Environmental Issues*, **Milano** (2006)
- SI-4 **M. Chatenet**, L'hydrogène de poche : quelle pile à combustible au quotidien ?, *Conférence midi-science, Université Joseph Fourier*, **Grenoble** (2007)
- SI-5 **M. Chatenet**, La pile à combustible : mythe ou réalité ? Quelle pile à combustible dans notre quotidien ?, *Réunion des anciens cadres supérieurs et dirigeants de Rhône-Poulenc agrochimie, Chazay d'Azergues* (2007)
- SI-6 **M. Chatenet**, L'ultramicroélectrode à cavité (UMEC) en électrocatalyse – principe, exemples et difficultés expérimentales, *Workshop UMEC*, **Paris** (2007)
- SI-7 **M. Chatenet**, M. B. Molina-Concha, G. Parrou, J.-P. Diard, Contribution à la caractérisation du mécanisme et de la cinétique d'électrooxydation de l'anion borohydrure en milieu alcalin, *Journées Toulousaines d'électrochimie*, **Toulouse** (2008)
- SI-8 **M. Chatenet**, Pt redistribution within PEMFC MEAs upon ageing – causes and consequences on the PEMFC performance, *Universidade de São Paulo, São Carlos* (2008)
- SI-9 **M. Chatenet**, First insights into the mechanism of the Borohydride Oxidation Reaction (BOR) on gold from Electrochemical Impedance Spectroscopy (EIS), *Universidade de São Paulo, São Carlos* (2009)
- SI-10 L. Dubau, J. Durst, E. Guilminot, F. Maillard, **M. Chatenet**, Dégradation des couches actives de PEMFC à base de nanoparticules de Pt ou PtCo supportées sur carbone de grande aire spécifique, *Laboratoire d'Énergétique et de Mécanique Théorique et Appliquée (LEMTA)*, **Nancy** (2011)
- SI-11 **M. Chatenet**, B. Molina Concha, L. Dubau, E. Guilminot, J. Durst, F. Maillard, Electrocatalysis in low-temperature fuel cells; from the limitations of PEMFC to the promises of DBFC, *University of Southampton*, **Southampton** (2012)
- SI-12 B. Vion-Dury, J. Durst, E. Guilminot, F. Maillard, **M. Chatenet**, L'ultramicroélectrode à cavité en électrocatalyse – forces et faiblesses vis-à-vis des outils de caractérisation classiques d'électrocatalyseurs de PEMFC, *Ecole thématique « Electrochimie pour les microréacteur, microcapteur, microbatteries »*, **Autrans** (2013)
- SI-13 **M. Chatenet**, Les piles à combustible basse température : rêve ou cauchemar ? (des problèmes à leur solutions), *Conférences de la Fédération de Chimie de Marseille*, **Marseille** (2013)
- SI-14 **M. Chatenet**, Study of NH_3BH_3 electrooxidation reaction on gold electrodes by in situ Fourier Transform InfraRed Spectroscopy and on-line Differential Electrochemical Mass Spectrometry, *Institut National Polytechnique de Lorraine*, **Nancy** (2013)
- SI-15 **M. Chatenet**, Les piles à combustible basse température pour le véhicule électrifié : rêve inaccessible ?, *Réunion des anciens cadres supérieurs et dirigeants de Rhône-Poulenc agrochimie, Chazay d'Azergues* (2013)
- SI-16 **M. Chatenet**, Non-covalent interaction of cations with metal/carbon and oxide/carbon surfaces – application to oxygen reactions in aqueous Li-air batteries), *Universidade de São Paulo, São Carlos* (2013)
- SI-17 **M. Chatenet**, Les piles à combustible basse température pour le véhicule électrique, *Réunion de l'ADEPT, Talloires* (2013)

- SI-18 **M. Chatenet**, Electrocatalysis of the borohydride oxidation reaction at Pt electrodes in alkaline medium, *Université de Strasbourg, Strasbourg* (2014)
- SI-19 **M. Chatenet**, Electrocatalysis of Pt/MO_x (M = Ti, W) materials in PEMFC environment, Saint Gobain CREE, **Cavaillon** (2014)
- SI-20 **M. Chatenet**, Direct Alkaline Fuel Cells: an alternative to H₂-fed PEMFC? Promises and hurdles, BEST seminar, **Grenoble** (2014)
- SI-21 **M. Chatenet**, Behavior of platinum and gold electrodes towards the borohydride oxidation reaction in alkaline medium, 1st TEC seminar of the Technische Universität München, **Brixen Im Thale** (2014).
- SI-22 **M. Chatenet**, Heterogeneities of aging upon PEMFC degradation – Why identical location transmission electron microscopy in polymer electrolyte environment is worth a study, 2nd TEC seminar of the Technische Universität München, **Brixen Im Thale, Austria** (2015).
- SI-23 **M. Chatenet**, Electrocatalysis at LEPMI, Team of interfacial electrochemistry, *Institut for Energy (IFE)*, **Kjeller, Norway** (2015).
- SI-24 **M. Chatenet**, Electrocatalysis at LEPMI, Team of interfacial electrochemistry, *SINTEF - NTNU*, **Trondheim, Norway** (2015).
- SI-25 **M. Chatenet**, Identical-location transmission electron microscopy, a tool to understand PEMFC electrocatalysts degradations, *séminaire IRCE Lyon*, **Lyon** (2015).
- SI-26 F. R. Nikkuni, J. Durst, L. Castanheira, E. A. Ticianelli, L. Dubau, F. Maillard, **M. Chatenet**, Identical-location transmission electron microscopy, a tool to understand PEMFC electrocatalysts degradations, *University of New Mexico*, **Albuquerque, USA** (2015).
- SI-27 P.-Y. Olu, A. Bonnefont, N. Job, E. Savinova, **M. Chatenet**, Experimental and modelling insights into the borohydride electrooxidation reaction mechanism at platinum electrodes, *Los Alamos National Laboratory*, **Los Alamos, USA** (2015).
- SI-28 L. Dubau, **M. Chatenet**, **F. Maillard**, Instability of carbon-supported Pt-based nanoparticles in model and real proton-exchange membrane fuel cell environment, *PC-Kolloquium Universität Ulm*, **Ulm, Allemagne** (2015).
- SI-29 **M. Chatenet**, Les piles à combustible dans le contexte du développement durable, *Conférence « Olympiades de Chimie »*, Mercredi 16 Décembre 2015, **Grenoble** (2015).
- SI-30 **M. Chatenet**, Les piles à combustible dans le contexte du développement durable, *Journées nationales des cordées de la réussite Collèges-Lycées - Grandes Écoles - Universités – Entreprises*, Cordée « **GRENOBLE SCIENCES** », Jeudi 4 février 2016, **Grenoble** (2016).
- SI-31 **M. Chatenet**, Durability issues in low-temperature fuel cells: from systems operated on the field to model accelerated stress-test, 3rd TEC seminar of the Technische Universität München, **Brixen Im Thale, Austria** (2016).
- SI-32 **M. Chatenet**, Les piles à combustible dans le contexte du développement durable, *Séminaire IUF, section Grenoble*, **Grenoble** (8 Juin 2016).
- SI-33 **M. Chatenet**, Les piles à combustible dans le contexte du développement durable, *Journée Scientifique de l'ARC Energies*, **Lyon** (27 Juin 2016).
- SI-34 J. Durst, L. Castanheira, L. Dubau, F. Maillard, **M. Chatenet**, Durability issues in low-temperature fuel cells: from systems operated on the field to model accelerated stress-test, *Univ. Shinshu*, **Nagano, Japon** (15 Septembre 2016).
- SI-35 **M. Chatenet**, Influence of the (nano)structuration of PtM/C electrocatalysts on their activity, selectivity and durability, *Journée Scientifique de l'IFPEN*, **Lyon** (2 Décembre 2016).

- SI-36** L. Dubau, F. Maillard, **M. Chatenet**, Méthodes et outils utilisés pour élucider les mécanismes de dégradation d'électrocatalyseurs de PEMFC, *40 ans plateforme CMTc*, **Grenoble** (22 mai 2017)
- SI-37** M. Chatenet, Insights into on-the-field PEMFC degradation: linking cell performance to local materials degradation, *Laplace & SAFRAN*, **Toulouse** (10 juillet 2017)
- SI-38** M. Chatenet, Electrocatalysis in gas diffusion electrodes, *Freie Universität Berlin*, **Berlin** (24 juillet 2017)
- SI-39** C. Lafforgue, A. Zadick, L. Dubau, M. Chatenet, Degradation mechanisms of metal-based carbon-supported electrocatalysts for alkaline fuel cells, *Helmholtz Zentrum Berlin*, **Berlin** (25 juillet 2017)
- SI-40** M. Chatenet, Borohydride oxidation reaction (BOR) efficiency and mechanism at gold and platinum electrodes, *Naval Research Laboratory*, **Washington DC, USA** (25 août 2017)
- SI-41** C. Lafforgue, G. Braesch, L. Dubau, F. Maillard, M. Chatenet, Durability of carbon-supported electrocatalysts in alkaline electrolytes for fuel cell applications, Atelier « Electrochimie à Montpellier », Labex CheMISyst, **Montpellier** (20 juin 2019)
- SI-42** C. Lafforgue, A. Zadick, L. Dubau, F. Maillard, M. Chatenet, Alkaline durability of carbon-supported electrocatalysts: More noble is not necessarily more stable!, *3rd TEC seminar of the Technische Universität München*, **Monte Isola, Italy** (26-29 August 2019)
- SI-43** M. Chatenet, Electrocatalysts' durability in alkaline medium: is more noble more stable?, *University of British Columbia*, **Vancouver, Canada** (18 October 2019)
- SI-44** M. Chatenet, Can we split water with stainless steel electrodes?, *Queens University*, **Kingston, Canada** (21 October 2019)