

1. Carbon Corrosion in Proton-Exchange Membrane Fuel Cells: From Model Experiments to Real-Life Operation in Membrane Electrode Assemblies
L. Castanheira, [L. Dubau](#), [M. Mermoux](#), G. Berthomé, N. Caqué, E. Rossinot, [M. Chatenet](#), [F. Maillard](#)
ACS Catalysis, **4** (2014) 2258-2267 [[DOI : 10.1021/cs500449q](#)]
2. Photocatalytic paper based on sol-gel titania nanoparticles immobilized on porous silica for VOC abatement
S. Adjimi, [N. Sergent](#), J.-C. Roux, F. Delpech, M. Pera-Titus, K. Chhor, A. Kanaev, [P.-X. Thivel](#)
Applied Catalysis B: Environmental, **154-155** (2014) 123-133 [[DOI : 10.1016/j.apcatb.2014.02.011](#)]
3. The role of water in the degradation of Pt₃Co/C nanoparticles: an Identical Location Transmission Electron Microscopy study in Polymer Electrolyte Environment
F. R. Nikkuni, B. Vion-Dury, [L. Dubau](#), [F. Maillard](#), E. A. Ticianelli, [M. Chatenet](#)
Applied Catalysis B: Environmental, **156-157** (2014) 301-306 [[DOI : 10.1016/j.apcatb.2014.03.029](#)]
4. Enabling LiTFSI-based Electrolytes for Safer Lithium-Ion Batteries by Using Linear Fluorinated Carbonates as (Co)Solvent
J. Kalhoff, D. Bresser, [M. Bolloli](#), [F. Alloin](#), [J.-Y. Sanchez](#), S. Passerini
ChemSusChem, **7** (2014) 2939-2946 [[DOI : 10.1002/cssc.201402502](#)]
5. Mechanisms of the initial steps in the Pd electro-deposition onto Au(111)
[E. Sibert](#), L. Wang, M. De Santis, [Y. Soldo-Olivier](#)
Electrochimica Acta, **135** (2014) 594-603 [[DOI : 10.1016/j.electacta.2014.04.168](#)]
6. A numerical analysis of PEMFC stack assembly through a 3D finite element model
[C. Carral](#), [P. Mélé](#)
International Journal of Hydrogen Energy, **39** (2014) 4516-4530 [[DOI : 10.1016/j.ijhydene.2014.01.036](#)]
7. Beyond conventional electrocatalysts: hollow nanoparticles for improved and sustainable oxygen reduction reaction activity
[L. Dubau](#), M. Lopez-Haro, J. Durst, L. Guétaz, P. Bayle-Guillemaud, [M. Chatenet](#), [F. Maillard](#)
Journal of Materials Chemistry A, **2** (2014) 18497-18507 [[DOI : 10.1039/C4TA03975K](#)]
8. The Effect of Structural Isomerism on Carbon Dioxide Sorption and Plasticization at the Interface of a Glassy Polymer Membrane
[S. Neyertz](#), [D. Brown](#)
Journal of Membrane Science, **460** (2014) 213-228 [[DOI : 10.1016/j.memsci.2014.03.002](#)]
9. A numerical model for a soluble lead-acid flow battery comprising a three-dimensional honeycomb-shaped positive electrode
A. Oury, A. Kirchev, [Y. Bultel](#)
Journal of Power Sources, **246** (2014) 703-718 [[DOI : 10.1016/j.jpowsour.2013.07.101](#)]
10. Charge Transport in Nanostructured PS-PEO-PS Triblock Copolymer Electrolytes
[R. Bouchet](#), T. N. T. Phan, E. Beaudoin, [D. Devaux](#), P. Davidson, D. Bertin, R. Denoyel
Macromolecules, **47** (2014) 2659-2668 [[DOI : 10.1021/ma500420w](#)]
11. Comparing extraction, synergism and separation of lanthanoids using acidic and neutral compounds in chloroform and one ionic liquid: is the latter always "better"?
M. Atanassova, V. Kurteva, L. Lubenov, [I. Billard](#)
RSC Advances, **4** (2014) 38820-38829 [[DOI : 10.1039/C4RA04302B](#)]
12. Extraction of iridium(IV) from aqueous solutions using hydrophilic/hydrophobic ionic liquids
[N. Papaiconomou](#), [I. Billard](#), [E. Chaînet](#)
RSC Advances, **4** (2014) 48260-48266 [[DOI : 10.1039/C4RA06991A](#)]
13. Chemical degradation of the encapsulation system in flexible panel as revealed by infrared and Raman microscopies
[E. Planes](#), B. Yrieix, [C. Bas](#), [L. Flandin](#)
Solar Energy Materials and Solar Cells, **122** (2014) 15-23 [[DOI : 10.1016/j.solmat.2013.10.033](#)]
14. A review of PEM fuel cell durability: materials degradation, local heterogeneities of aging and possible mitigation strategies

- [L. Dubau](#), L. Castanheira, [F. Maillard](#), [M. Chatenet](#), O. Lottin, G. Maranzana, J. Dillet, A. Lamibrac, J.-C. Perrin, E. Moukheiber, A. ElKaddouri, [G. De Moor](#), [C. Bas](#), [L. Flandin](#), N. Caqué
Wiley Interdisciplinary Reviews: Energy and Environment, **3** (2014) 540-560 [[DOI : 10.1002/wene.113](#)]
15. Interfacial Structure and Photocatalytic Activity of Magnetron Sputtered TiO₂ on Conducting Metal Substrates
S. Davídsdóttir, J.-P. Petit, [M. Mermoux](#), R. Shabadi, S. Canulescu, K. Almtoft, K. Dirscherl, R. Ambat
ACS Applied Materials & Interfaces, **6** (2014) 22224-22234 [[DOI : 10.1021/am5059298](#)]
 16. Highly dispersed Pt/C catalysts prepared by the Charge Enhanced Dry Impregnation method
C. Cao, G. Yang, [L. Dubau](#), [F. Maillard](#), S. D. Lambert, J.-P. Pirard, N. Job
Applied Catalysis B: Environmental, **150-151** (2014) 101-106 [[DOI : 10.1016/j.apcatb.2013.12.004](#)]
 17. Atomic-scale structure and composition of Pt₃Co/C nanocrystallites during real PEMFC operation: A STEM-EELS study
M. Lopez-Haro, [L. Dubau](#), L. Guétaz, P. Bayle-Guillemaud, [M. Chatenet](#), J. André, N. Caqué, E. Rossinot, [F. Maillard](#)
Applied Catalysis B: Environmental, **152-153** (2014) 300-308 [[DOI : 10.1016/j.apcatb.2014.01.034](#)]
 18. Zinc biosorption by the purple non-sulfur bacterium *Rhodobacter capsulatus*
[J.-P. Magnin](#), N. Gondrexon, J. C. Willison
Canadian Journal of Microbiology, **60** (2014) 829-827 [[DOI : 10.1139/cjm-2014-0231](#)]
 19. Boosting the electrochemical properties of diamond electrodes using carbon nanotube scaffolds
C. Hébert, J.-P. Mazellier, E. Scorsone, [M. Mermoux](#), P. Bergonzo
Carbon, **71** (2014) 27-33 [[DOI : 10.1016/j.carbon.2013.12.083](#)]
 20. Photocatalytic oxidation of ethanol using paper-based nano-TiO₂ immobilized on porous silica: a modelling study
S. Adjimi, J.-C. Roux, [N. Sergent](#), F. Delpech, [P.-X. Thivel](#), M. Pera-Titus
Chemical Engineering Journal, **251** (2014) 381-391 [[DOI : 10.1016/j.cej.2014.04.013](#)]
 21. Dimethoxymethane (DMM) electrooxidation on carbon-supported Pt-based nanosized catalysts for PEMFC
G. Kéranguéven, [E. Sibert](#), F. Hahn, J.-M. Léger
Comptes Rendus Chimie, **17** (2014) 760 [[DOI : 10.1016/j.crci.2013.12.010](#)]
 22. Thermal structural characterization of the acentric layered perovskite LiHSrTa₂O₇: X-ray and neutron diffraction, SHG and Raman experiments
C. Galven, D. Mounier, [T. Pagnier](#), E. Suard, O. B.V. F.N. Berre, M.-P. Crosnier-Lopez
Dalton Transactions, **43** (2014) 14841-14850 [[DOI : 10.1039/C4DT01723D](#)]
 23. NiMnO_x/C: A Non-noble Ethanol-Tolerant Catalyst for Oxygen Reduction in Alkaline Exchange Membrane DEFC
A. C. Garcia, J. J. Linares, E. A. Ticianelli, [M. Chatenet](#)
Electrocatalysis, **5** (2014) 41-49 [[DOI : 10.1007/s12678-013-0162-1](#)]
 24. Accelerated Stress Tests of Pt/HSAC Electrocatalysts: an Identical-Location Transmission Electron Microscopy Study on the Influence of Intermediate Characterizations
L. Castanheira, [L. Dubau](#), [F. Maillard](#)
Electrocatalysis, **5** (2014) 125-135 [[DOI : 10.1007/s12678-013-0173-y](#)]
 25. 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
[P.-Y. Olu](#), C. R. Barros, N. Job, [M. Chatenet](#)
Electrocatalysis, **5** (2014) 288-300 [[DOI : 10.1007/s12678-014-0195-0](#)]
 26. Influence of the surface morphology of smooth platinum electrodes for the sodium borohydride oxidation reaction
[P.-Y. Olu](#), B. Gilles, N. Job, [M. Chatenet](#)
Electrochemistry Communications, **43** (2014) 47-50 [[DOI : 10.1016/j.elecom.2014.02.018](#)]

27. When cubic nanoparticles get spherical: An Identical Location Transmission Electron Microscopy case study with Pd in alkaline media
A. Zadick, L. Dubau, A. Zalineeva, C. Coutanceau, M. Chatenet
Electrochemistry Communications, **48** (2014) 1-4 [DOI : [10.1016/j.elecom.2014.07.020](https://doi.org/10.1016/j.elecom.2014.07.020)]
28. An algorithm for diagnosis of proton exchange membrane fuel cells by electrochemical impedance spectroscopy
S. Tant, S. Rosini, P.-X. Thivel, F. Druart, A. Rakotondrainibe, T. Geneston, Y. Bultel
Electrochimica Acta, **135** (2014) 368-379 [DOI : [10.1016/j.electacta.2014.04.108](https://doi.org/10.1016/j.electacta.2014.04.108)]
29. Mass spectrometric investigation of ethanol and acetaldehyde adsorbates electrooxidation on Pt electrocatalyst
A. Bach Delpeuch, M. Chatenet, C. Cremers, T. Tübke
Electrochimica Acta, **141** (2014) 102-112 [DOI : [10.1016/j.electacta.2014.06.143](https://doi.org/10.1016/j.electacta.2014.06.143)]
30. Permeation of water vapor through high performance laminates for VIPs and physical characterization of sorption and diffusion phenomena
E. Pons, B. Yrieix, L. Heymans, F. Dubelley, E. Planes
Energy and Buildings, **85** (2014) 604-616 [DOI : [10.1016/j.enbuild.2014.08.032](https://doi.org/10.1016/j.enbuild.2014.08.032)]
31. Proton conducting membranes prepared by radiation grafting of styrene and various comonomers
K. Jetsrisuparb, S. Balog, C. Bas, L. Perrin, A. Wokaun, L. Gubler
European Polymer Journal, **53** (2014) 75-89 [DOI : [10.1016/j.eurpolymj.2014.01.021](https://doi.org/10.1016/j.eurpolymj.2014.01.021)]
32. Fluorinated benzothiadiazole-based low band gap copolymers to enhance open-circuit voltage and efficiency of polymer solar cells
H. Medlej, A. Nouridine, H. Awada, M. Abbas, C. Dagron-Lartigau, G. Wantz, L. Flandin
European Polymer Journal, **59** (2014) 25-35 [DOI : [10.1016/j.eurpolymj.2014.07.006](https://doi.org/10.1016/j.eurpolymj.2014.07.006)]
33. Fuel Cells & Hydrogen: Which Place in the Context of Global Energy Challenges
N. Steiner, D. Hissel, Y. Bultel
Fuel Cells, **14** (2014) 342-342 [DOI : [10.1002/fuce.201490010](https://doi.org/10.1002/fuce.201490010)]
34. Using the Multiple SEA Method to Synthesize Pt/Carbon Xerogel Electrocatalysts for PEMFC Applications
A. Zubiaur, M. Chatenet, F. Maillard, S. D. Lambert, J.-P. Pirard, N. Job
Fuel Cells, **14** (2014) 343-349 [DOI : [10.1002/fuce.201300208](https://doi.org/10.1002/fuce.201300208)]
35. Coral Microstructure of Graded CGO/LSCF Oxygen Electrode by Electrostatic Spray Deposition for Energy (IT-SOFC, SOEC)
J. Sar, F. Charlot, A. Almeida, L. Dessemond, E. Djurado
Fuel Cells, **14** (2014) 357-363 [DOI : [10.1002/fuce.201300146](https://doi.org/10.1002/fuce.201300146)]
36. PEMFC Performances Using Photocatalytic Hydrogen with a Dead-Ended Anode
J. Rodriguez, E. Puzenat, R. Mosdale, P.-X. Thivel
Fuel Cells, **14** (2014) 403-411 [DOI : [10.1002/fuce.201300210](https://doi.org/10.1002/fuce.201300210)]
37. Experimental Validation of Two-Dimensional H₂O and CO₂ Co-Electrolysis Modeling
J. Aicart, J. Laurencin, M. Petitjean, L. Dessemond
Fuel Cells, **14** (2014) 430-447 [DOI : [10.1002/fuce.201300214](https://doi.org/10.1002/fuce.201300214)]
38. On-Line PEMFC Control Using Parameterized Nonlinear Model-Based Predictive Control
C. Damour, M. Benne, J.-J. A. Kadjo, J. Deseure, B. Grondin-Perez
Fuel Cells, **14** (2014) 886-893 [DOI : [10.1002/fuce.201400080](https://doi.org/10.1002/fuce.201400080)]
39. Barium Borosilicate Sealing Glasses Synthesized by a Sol-Gel Process: Chemical Interactions with a Stainless Steel and Gas-Tightness of a SOFC
J. Puig, F. Ansart, P. Lenormand, N. Bailly, S. Georges, J. Dailly
Fuel Cells, **14** (2014) 1014-1021 [DOI : [10.1002/fuce.201300289](https://doi.org/10.1002/fuce.201300289)]
40. Lithium recovery from aqueous solution by sorption/desorption
J. Lemaire, L. Švecová, F. Lagallarde, R. Laucournet, P.-X. Thivel
Hydrometallurgy, **143** (2014) 1-11 [DOI : [10.1016/j.hydromet.2013.11.006](https://doi.org/10.1016/j.hydromet.2013.11.006)]

41. Coupled system of PDEs to predict the sensitivity of some materials constituents of FOUP with the AMCs cross-contamination
N. Santatriniaina, [J. Deseure](#), T. Q. Nguyen, H. Fontaine, C. Beitia, L. Rakotomanana
International Journal of Applied Mathematical Research, **3** (2014) 233-243 [DOI : [10.14419/ijamr.v3i3.2829](#)]
42. Correlation between hydrogen storage properties and textures induced in magnesium through ECAP and cold rolling
[A. Moreira Jorge Jr.](#), G. F. de Lima, M. R. M. Triques, [W. J. Botta](#), C. S. Kiminami, [R. P. Nogueira](#), A. R. Yavari, T. G. Langdon
International Journal of Hydrogen Energy, **30** (2014) 3810-3821 [DOI : [10.1016/j.ijhydene.2013.12.154](#)]
43. Understanding the formation of pinholes in PFSA membranes with the essential work of fracture (EWF)
E. Moukheiber, [C. Bas](#), [L. Flandin](#)
International Journal of Hydrogen Energy, **39** (2014) 2717-2723 [DOI : [10.1016/j.ijhydene.2013.03.031](#)]
44. Polyethersulfone containing sulfonimide groups as proton exchange membrane fuel cells
[L. Assumma](#), [C. Iojoiu](#), G. Albayrak Ari, [L. Cointeaux](#), [J.-Y. Sanchez](#)
International Journal of Hydrogen Energy, **39** (2014) 2740-2750 [DOI : [10.1016/j.ijhydene.2013.07.090](#)]
45. An experimental analysis of PEMFC stack assembly using strain gage sensors
[C. Carral](#), [N. Charvin](#), H. Trouvé, [P. Mélé](#)
International Journal of Hydrogen Energy, **39** (2014) 4493-4501 [DOI : [10.1016/j.ijhydene.2014.01.033](#)]
46. Diagnostic tools for PEMFCs: from conception to implementation
C. Cadet, S. Jemei, [F. Druart](#), D. Hissel
International Journal of Hydrogen Energy, **39** (2014) 10613-10626 [DOI : [10.1016/j.ijhydene.2014.04.163](#)]
47. Real-time implementation of a neural model-based self-tuning PID strategy for oxygen stoichiometry control in PEM fuel cell
C. Damour, M. Benne, C. Lebreton, [J. Deseure](#), B. Grondin-Perez
International Journal of Hydrogen Energy, **39** (2014) 12819-12825 [DOI : [10.1016/j.ijhydene.2014.06.039](#)]
48. Carbon corrosion induced by membrane failure: The weak link of PEMFC long-term performance
[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
International Journal of Hydrogen Energy, **39** (2014) 21902-21914 [DOI : [10.1016/j.ijhydene.2014.07.099](#)]
49. Mathematical modelling of the AMCs cross-contamination removal in the FOUPs: Finite element formulation and application in FOUP's decontamination
N. Santatriniaina, [J. Deseure](#), T. Q. Nguyen, H. Fontaine, C. Beitia, L. Rakotomanana
International Journal of Physical and Mathematical Sciences, **8** (2014) 676-681
50. Corrosion resistance of Fe-based amorphous alloys
[W. J. Botta](#), J. E. Berger, C. S. Kiminami, [V. Roche](#), [R. P. Nogueira](#), [C. Bolfarini](#)
Journal of Alloys and Compounds, **586** (2014) S105-S110 [DOI : [10.1016/j.jallcom.2012.12.130](#)]
51. Structure, sintering and electrical properties of new ionic conductor $\text{Ag}_4\text{Co}_7(\text{AsO}_4)_6$
[R. Marzouki](#), A. Guesmi, [S. Georges](#), M. F. Zid, A. Driss
Journal of Alloys and Compounds, **586** (2014) 74-79 [DOI : [10.1016/j.jallcom.2013.09.213](#)]
52. Understanding dynamic percolation mechanisms in carbonaceous polymer nanocomposites through impedance spectroscopy: Experiments and modeling
A. Combessis, [N. Charvin](#), A. Allais, J. Fournier, [L. Flandin](#)
Journal of Applied Physics, **116** (2014) 034103 [DOI : [10.1063/1.4890342](#)]
53. Fracture phenomena in micro- and nano-layered polycarbonate/poly(vinylidene fluoride-co-hexafluoropropylene) films under electric field for high energy density capacitors
Z. Zhou, M. Mackey, K. Yin, L. Zhu, D. E. Schuele, [L. Flandin](#), E. Baer
Journal of Applied Polymer Science, **131** (2014) 39877 [DOI : [10.1002/app.39877](#)]

54. Continuously regenerating Diesel Particulate Filters based on ionically conducting ceramics
E. Obeid, L. Lizarraga, M. N. Tsampas, A. Cordier, A. Boréave, **M. C. Steil**, G. Blanchard, K. Pajot, P. Vernoux
Journal of Catalysis, **309** (2014) 87-96 [DOI : [10.1016/j.jcat.2013.09.004](https://doi.org/10.1016/j.jcat.2013.09.004)]
55. Impact of the solute exclusion on the bed longitudinal diffusion coefficient and particle intra-tortuosity determined by ISEC
V. Wernert, **R. Bouchet**, R. Denoyel
Journal of Chromatography A, **1325** (2014) 179-185 [DOI : [10.1016/j.chroma.2013.12.029](https://doi.org/10.1016/j.chroma.2013.12.029)]
56. Transport of selenium oxyanions through TiO₂porous media: Column experiments and multi-scale modeling
K. Nsir, **L. Švecová**, M. Sardin, M.-O. Simonnot
Journal of Contaminant Hydrology, **160** (2014) 30-41 [DOI : [10.1016/j.jconhyd.2014.02.004](https://doi.org/10.1016/j.jconhyd.2014.02.004)]
57. Germanium content and strain in Si_{1-x}Ge_x alloys characterized by Raman spectroscopy
D. Rouchon, **M. Mermoux**, F. Bertin, J.-M. Hartmann
Journal of Crystal Growth, **392** (2014) 66-73 [DOI : [10.1016/j.jcrysgro.2014.01.019](https://doi.org/10.1016/j.jcrysgro.2014.01.019)]
58. Study of the plutonium (IV) electrochemical behavior in nitric acid at a platinum electrode. Application to the cathodic reduction of Pu(IV) in a plate electrolyzer
S. Georgette, S. Picart, C. Bouyer, J. Maurin, I. Bisel, S. Grandjean, **J. Deseure**, F. Lapique
Journal of Electroanalytical Chemistry, **727** (2014) 163-170 [DOI : [10.1016/j.jelechem.2014.06.015](https://doi.org/10.1016/j.jelechem.2014.06.015)]
59. Non-intuitive features of equivalent circuits for analysis of EIS data. The example of EE reaction
J.-P. Diard, **C. Montella**
Journal of Electroanalytical Chemistry, **735** (2014) 99-110 [DOI : [10.1016/j.jelechem.2014.08.029](https://doi.org/10.1016/j.jelechem.2014.08.029)]
60. Study of magnetic and magnetocaloric properties of La_{0.6}Pr_{0.1}Ba_{0.3}MnO₃ and La_{0.6}Pr_{0.1}Ba_{0.3}Mn_{0.9}Fe_{0.1}O₃ perovskite-type manganese oxides
R. Cherif, E. K. Hlil, M. Ellouze, F. Elhalouani, **S. Obbade**
Journal of Materials Science, **49** (2014) 8244-8251 [DOI : [10.1007/s10853-014-8533-4](https://doi.org/10.1007/s10853-014-8533-4)]
61. Comparative Study of Proton Conducting Ionic Liquid Doped Nafion Membranes Elaborated by Swelling and Casting Methods: Processing Conditions, Morphology, and Functional Properties
R. Sood, **C. Iojoiu**, E. Espuche, F. Gouanvé, G. Gebel, H. Mendil-Jakani, S. Lyonnard, J. Jestin
Journal of Physical Chemistry C, **118** (2014) 14157-14168 [DOI : [10.1021/jp502454m](https://doi.org/10.1021/jp502454m)]
62. Surface Modifications of Detonation Nanodiamonds Probed by Multiwavelength Raman Spectroscopy
M. Mermoux, A. Crisci, T. Petit, H. A. Girard, J.-C. Arnault
Journal of Physical Chemistry C, **118** (2014) 23415-23425 [DOI : [10.1021/jp507377z](https://doi.org/10.1021/jp507377z)]
63. Reversibility of Pt-Skin and Pt-Skeleton Nanostructures in Acidic Media
J. Durst, M. Lopez-Haro, **L. Dubau**, **M. Chatenet**, **Y. Soldo-Olivier**, L. Guétaz, P. Bayle-Guillemaud, **F. Maillard**
Journal of Physical Chemistry Letters, **5** (2014) 434-439 [DOI : [10.1021/jz4025707](https://doi.org/10.1021/jz4025707)]
64. A non-conventional fluorinated separator in high-voltage graphite/LiNi_{0.4}Mn_{1.6}O₄ cells
C. Arbizzani, F. Colo, F. De Giorgio, M. Guidotti, M. Mastragostino, **F. Alloin**, **M. Bolloli**, **Y. Molmeret**, **J.-Y. Sanchez**
Journal of Power Sources, **246** (2014) 299-304 [DOI : [10.1016/j.jpowsour.2013.07.095](https://doi.org/10.1016/j.jpowsour.2013.07.095)]
65. Effect of cation substitution in the A site on the oxygen semi-permeation flux in La_{0.5}A_{0.5}Fe_{0.7}Ga_{0.3}O_{3-d} and La_{0.5}A_{0.5}Fe_{0.7}Co_{0.3}O_{3-d} dense perovskite membranes with A = Ca, Sr and Ba (Part I)
M. Reichmann, P.-M. Geffroy, **J. Fouletier**, N. Richet, T. Chartier
Journal of Power Sources, **261** (2014) 175-183 [DOI : [10.1016/j.jpowsour.2014.03.074](https://doi.org/10.1016/j.jpowsour.2014.03.074)]
66. Cycling of soluble lead flow cells comprising a honeycomb-shaped positive electrode
A. Oury, A. Kirchev, **Y. Bultel**
Journal of Power Sources, **264** (2014) 22-29 [DOI : [10.1016/j.jpowsour.2014.04.058](https://doi.org/10.1016/j.jpowsour.2014.04.058)]
67. Magnetic and magnetocaloric properties of La_{0.6}Pr_{0.1}Sr_{0.3}Mn_{1-x}Fe_xO₃ (0= x =0.3) manganites
R. Cherif, E. K. Hlil, M. Ellouze, F. Elhalouani, **S. Obbade**
Journal of Solid State Chemistry, **215** (2014) 271-276 [DOI : [10.1016/j.jssc.2014.04.004](https://doi.org/10.1016/j.jssc.2014.04.004)]

68. Electrooxidation of Ethanol at Room Temperature on Carbon-Supported Pt and Rh-Containing Catalysts: A DEMS Study
A. Bach Delpeuch, T. Asset, M. Chatenet, C. Cremers
Journal of the Electrochemical Society, **161** (2014) F918-F924 [DOI : [10.1149/2.0731409jes](https://doi.org/10.1149/2.0731409jes)]
69. A Fuel-Flexible Solid Oxide Fuel Cell Operating in Gradual Internal Reforming
S. D. Nóbrega, P. Gélin, S. Georges, M. C. Steil, B. L. Augusto, F. B. Noronha, F. C. Fonseca
Journal of the Electrochemical Society, **161** (2014) F354-F359 [DOI : [10.1149/2.107403jes](https://doi.org/10.1149/2.107403jes)]
70. Electrodeposition of heterogeneous Mn-Bi thin films from a sulfate-nitrate bath : nucleation mechanism and morphology
S. Boudinar, N. Benbrahim, B. Benfedda, A. Kadri, E. Chaïnet, L. Hamadou
Journal of the Electrochemical Society, **161** (2014) D227-D234 [DOI : [10.1149/2.046405jes](https://doi.org/10.1149/2.046405jes)]
71. Photo-Cross-Linked Diblock Copolymer Micelles: Quantitative Study of Photochemical Efficiency, Micelles Morphologies and their Thermal Behavior
D. Lê, L. Liénafa, T. N. T. Phan, D. Deleruyelle, R. Bouchet, S. Maria, D. Bertin, D. Gigmes
Macromolecules, **47** (2014) 2420-2429 [DOI : [10.1021/ma5000656](https://doi.org/10.1021/ma5000656)]
72. Carboxylated nanodiamonds are neither cytotoxic nor genotoxic on kidney, intestine, lung and liver human cell lines
V. Paget, J. A. Sergent, R. Grall, S. Altmeyer-Morel, H. A. Girard, T. Petit, C. Gesset, M. Mermoux, P. Bergonzo, J.-C. Arnault, S. Chevillard
Nanotoxicology, **8** (2014) 46-56 [DOI : [10.3109/17435390.2013.855828](https://doi.org/10.3109/17435390.2013.855828)]
73. Batteries: A stable lithium metal interface
R. Bouchet
Nature Nanotechnology, **9** (2014) 572-573 [DOI : [10.1038/nnano.2014.165](https://doi.org/10.1038/nnano.2014.165)]
74. A comparison of homopolymer and block copolymer structure in 6FDA-based polyimides
I. Tanis, D. Brown, S. Neyertz, R. Heck, R. Mercier
Physical Chemistry Chemical Physics, **16** (2014) 23044-23055 [DOI : [10.1039/C4CP03039G](https://doi.org/10.1039/C4CP03039G)]
75. Interfacial polarization and layer thickness effect on electrical insulation in multilayered polysulfone/poly(vinylidene fluoride) films
J.-K. Tseng, S. Tang, Z. Zhou, M. Mackey, J. M. Carr, R. Mu, L. Flandin, D. E. Schuele, E. Baer, L. Zhu
Polymer, **55** (2014) 8-14 [DOI : [10.1016/j.polymer.2013.11.042](https://doi.org/10.1016/j.polymer.2013.11.042)]
76. Experimental connections between aqueous–aqueous and aqueous–ionic liquid biphasic systems
V. Mazan, I. Billard, N. Papaiconomou
RSC Advances, **4** (2014) 13371-13384 [DOI : [10.1039/C4RA00645C](https://doi.org/10.1039/C4RA00645C)]
77. Unusual electrochemical behaviour of AuBr₄⁻ in ionic liquids. Towards a simple recovery of gold(III) after extraction into an ionic liquid
N. Papaiconomou, N. Glandut, I. Billard, E. Chaïnet
RSC Advances, **4** (2014) 58910-58915 [DOI : [10.1039/C4RA10815A](https://doi.org/10.1039/C4RA10815A)]
78. Oxygen transport in amino-functionalized polyhedral oligomeric silsesquioxanes (POSS)
S. Neyertz, P. Gopalan, P. Brachet, A. Kristiansen, F. Männle, D. Brown
Soft Materials, **12** (2014) 113-123 [DOI : [10.1080/1539445X.2013.781037](https://doi.org/10.1080/1539445X.2013.781037)]
79. Isothermal catalytic oxidation of diesel soot on Yttria-stabilized Zirconia
E. Obeid, M. N. Tsampas, S. Jonet, A. Boréave, L. Burel, M. C. Steil, G. Blanchard, K. Pajot, P. Vernoux
Solid State Ionics, **262** (2014) 253-256 [DOI : [10.1016/j.ssi.2013.12.015](https://doi.org/10.1016/j.ssi.2013.12.015)]
80. Elaboration of controlled size Li_{1.5}Al_{0.5}Ge_{1.5}(PO₄)₃ crystallites from glass-ceramics
A. Kubanska, L. Castro, L. Tortet, O. Schäf, M. Dollé, R. Bouchet
Solid State Ionics, **266** (2014) 44-50 [DOI : [10.1016/j.ssi.2014.07.013](https://doi.org/10.1016/j.ssi.2014.07.013)]
81. La_{0.7}Sr_{0.3}MnO_{3-d} barrier for Cr₂O₃-forming SOFC interconnect alloy coated by electrostatic spray deposition
L. da Conceição, L. Dessemond, E. Djurado, E. N. S. Muccillo
Surface and Coatings Technology, **254** (2014) 157-166 [DOI : [10.1016/j.surfcoat.2014.06.005](https://doi.org/10.1016/j.surfcoat.2014.06.005)]

82. Corrosion properties of Fe–Cr–Nb–B amorphous alloys and coatings
[G. Y. Koga](#), [R. P. Nogueira](#), [V. Roche](#), A. R. Yavari, A. K. Melle, J. Gallego, [C. Bolfarini](#), C. S. Kiminami, [W. J. Botta](#)
Surface and Coatings Technology, **254** (2014) 238-243 [DOI : [10.1016/j.surfcoat.2014.06.022](https://doi.org/10.1016/j.surfcoat.2014.06.022)]
83. Structural properties of ultraviolet cured polysilazane gas barrier layers on polymer substrates
A. Morlier, S. Cros, J.-P. Garandet, [N. D. Albérola](#)
Thin Solid Films, **550** (2014) 85-89 [DOI : [10.1016/j.tsf.2013.10.140](https://doi.org/10.1016/j.tsf.2013.10.140)]