






### Publications choisies

- PLA/PHBV films with improved mechanical and gas barrier properties*, **Boufarguine M., Guinault A., Miquelard-Garnier G., Sollogoub C.**, *Macromolecular Materials and Engineering*, 298, 10, 1065-1073, 2013
- Effect of relative humidity on carvacrol release and permeation properties of chitosan based films and coatings*, **Kurek M., Guinault A., Voilley A.Galic K., Debeaufort F.**, *Food Chemistry*, 144, 9-17, 2013
- Crystallization behaviour of PLA/PHB/talc composites*, **Nguyen Tri P., Domenek S., Guinault A., Sollogoub C.**, *"Journal of Applied Polymer Science"*, 129, 6, 3355-3565, 2013
- Z. Hamouche-Hadjem, JP. Chevalier, Y. Cui, F.Bonnet**, *Deformation behavior and damage evaluation in a new titanium diboride (TiB<sub>2</sub>) steel-based composite*, *STEEL RESEARCH INTERNATIONAL* **83** (6), pp. 538-545 (2012)
- Synchrotron diffraction study of dissolution and precipitation kinetics of hybrides in zircaloy-4*, **O. Zanellato, M. Preuss, J.Y. Buffière, F. Ribeiro, A. Steuer, J. Desquines, J. Andrieux, B. Krebs**, *Journal of Nuclear Materials*, 420, 2012, 537
- Impact of crystallinity of poly(lactide) on helium and oxygen barrier properties*  
**Guinault, A., C. Sollogoub, Ducruet, V., & Domenek, S.**"*European Polymer Journal*", 48(4), 779, 2012
- Synthesis and Characterization of Polymer Blends of Sulfonated Polyethersulfone and Sulfonated Polyethersulfone Octylsulfonamide for PEMFC Applications*  
**W. Mabrouk, L. Ogier, S. Vidal, C. Sollogoub, F. Matoussi, M. Dachraoui, J. F. Fauvarque**  
*"Fuel Cells"*, 3, 2148-2155, 2012
- Amphiphilic diblock copolymers based on ethylene oxide and epoxides bearing aliphatic side chains*  
**A.-L. Brocas, M. Gervais, S. Carlotti, A. Deffieux**  
*"Polymer Chemistry"*, 12, 179–187, 2012
- Origin of the bubble defect in the extrusion coating process*  
**C.Sollogoub, P. Montmitonet, Y. Demay, J.F. Agassant, P. Deparis**  
*"Polymer Engineering and Science"*, 51, 2, 347, 2011  
DOI 10.1002/pen.21802  [Abstract](#)
- Analysis of the structure-properties relationships of different multiphase systems based on plasticized PLA*  
**Courgneau C., Domenek S., Guinault A., Averous L., Ducruet V.**  
*"Journal of Polymers and the environment"*, 19, 2, 362, 2011  [Abstract](#)
- Preparation of new proton exchange membranes using poly(ether sulfone) modified by octylamine*  
**Mabrouk, L. Ogier, J. F. Fauvarque, F. Matoussi, C. Sollogoub, M. Dachraoui, S. Vidal**  
*"Materials Chemistry and Physics"*, 128, 3, 456, 2011  [Abstract](#)
- The effect of weld residual stresses and their redistribution with crack growth during fatigue under constant amplitude loading*  
**C.D.M. Liljedhal, O. Zanellato, M.E. Fitzpatrick, J. Lin, L. Edwards**  
*"International Journal of Fatigue"*, 32, 735, 2010  [Abstract](#)
- Synthesis of high molar mass glycidol-based polymers by monomer activated anionic polymerization*  
**M. Gervais, A.-L. Brocas, G. Cendejas, A. Deffieux, S. Carlotti**  
*"Macromolecules"*, 43, 1778, 2010
- Contact line mechanics for pattern control*  
**Miquelard-Garnier G., Croll A.B., Davis C.S., Crosby A.J.**  
*"Soft Matter"* 2010, 6, 5789
- Formation and characterisation of cross-linked membranes for alkaline fuel cells*  
**C. Sollogoub, A. Guinault, C. Bonnebat, M. Bennjima, L. Akrouf, J-F. Fauvarque and L. Ogier**  
*"Journal of Membrane Science"*, 335, 37-42 (2009)  
 [Abstract](#)

