



4th International Symposium on
Energy **C**hallenges & **M**echanics
- working on small scales

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Speaker of Session 14

POROUS MATERIALS FOR ENERGY APPLICATIONS



Stéphanie D. Lambert received the M.Sc. in Chemical Engineering from the University of Liege (Belgium) in 1999 and Ph.D. in Applied Sciences in the same university in 2003. She worked as a researcher engineer at Nanocyl Society in 2004. From 2005, she obtained a post-doctoral researcher position in the Department of Chemical Engineering of the University of Liege. In 2006, she joined the Department of Chemical Engineering of the University of Illinois at Chicago and in 2007-2008, she worked in the Charles Gerhardt Institute in Montpellier (France). From 2009, she became permanent as an Associate Professor and a FRS-FNRS Research Associate in the University of Liege.

Research topics :

- Synthesis by sol-gel process of mono- or bimetallic catalysts supported on inorganic xerogel;
- Physico-chemical characterisation of support and metal active sites (texture, morphology, metal dispersion and localisation, nanoparticles composition in the case of bimetallic catalysts, surface composition of alloys, ...);
- Development and optimisation of catalytic processes (hydrodechlorination, hydrogenation, oxidation of chlorinated volatile compounds, catalytic epuration of biogas, photocatalysis degradation of wastes in gaseous, aqueous and solid mediums);

