

# Curriculum Vitae

## Dr. Danai Poulidi

Dr. Danai Poulidi obtained an MEng in Chemical Engineering from the National Technical University of Athens in 1999, an MSc in Environmental Sustainability from the University of Edinburgh in 2000 and a PhD in Chemical Engineering from UMIST in 2004.

She worked for a year as a post-doctoral research associate at Imperial College in London on recovery of metals from scrap electrical and electronic equipment by leaching and electrowinning a project funded by the EPSRC.

Danai joined the group of Applied Catalysis in the University of Newcastle as a post-doctoral research associate in July 2005. Her current research interests lie in the area of electrochemical promotion of catalysis and high temperature membrane reactors for hydrogen production. She has worked in various projects funded by the EPSRC and the Royal Society. Her current project is focused on the study of spillover using model micro- and nano-patterned catalyst electrodes.

### Selected Publications:

1. Controlled spillover in a single catalyst pellet: rate modification, mechanism and relationship with electrochemical promotion, D. Poulidi, M.E. Rivas, I.S. Metcalfe, *Journal of Catalysis*, 281 (2011) 188
2. Development and testing of an intermediate temperature glass sealant for use in mixed ionic and electronic conducting membrane reactors, Joanne Hatcher, María Jesús Pascual, Danai Poulidi, Ian S. Metcalfe, *Solid State Ionics*, 181 (2010) 767
3. Hydrogen-permeation characteristics of a SrCeO<sub>3-δ</sub> based ceramic separation membrane: Thermal, ageing and surface-modification effects, Glenn C. Mather, Danai Poulidi, Alan Thursfield, María Jesús Pascual, José Ramón Jurado, Ian S. Metcalfe, *Solid State Ionics*, 181 (2010) 230
4. Electrochemical promotion of a platinum catalyst supported on the high-temperature proton conductor La<sub>0.99</sub>Sr<sub>0.01</sub>NbO<sub>4-δ</sub>, D. Poulidi, G.C. Mather, C.N. Tabacaru, A. Thursfield, I.S. Metcalfe, *Catalysis Today*, 146 (2009) 279
5. Comparative studies between classic and wireless electrochemical promotion of a Pt catalyst for ethylene oxidation, D. Poulidi, I.S. Metcalfe, *Journal of Applied Electrochemistry*, 38 (2008), 1121
6. Electrochemical promotion of catalysis controlled by chemical potential difference across a mixed ionic electronic conducting ceramic membrane – an example of wireless NEMCA, D. Poulidi, A. Thursfield, I.S. Metcalfe, *Topics in Catalysis*, 44 (2007) 435