



Małgorzata (Gosia) Swadźba-Kwaśny

Dr. Małgorzata (Gosia) Swadźba-Kwaśny graduated with an MSc Eng from the Silesian University of Technology, Poland. In 2009 she obtained PhD (under the supervision of Prof K.R. Seddon) from the QUILL Research Centre, Queen's University of Belfast, UK, where she currently works as a Research Fellow. Gosia shares her time between fundamental research on complex liquids, especially ionic liquids, and as a Project Leader for several industrial projects. Gosia's scientific interests revolve around structural studies of complex liquids, such as ionic liquids or liquid coordination complexes. In particular, she is interested in speciation of metal complexes and hydrogen-bonded clusters in the liquid state of ionic liquids and other complex fluids. She has a keen interest in quantifying and manipulating Brønsted and Lewis acidity of such systems, and she looks to use this knowledge in catalytic applications. Her industrial interests revolve around homogenous catalysis for processes relevant to the oil industry. Throughout her career, she has collaborated with several major oil and chemical companies, including BP, Petronas and Evonik. Gosia has over 20 publications, which include papers in peer-reviewed journals and international patents.

Selected publications:

1. J. Estager, J. D. Holbrey and M. Swadźba-Kwaśny, Halometallate ionic liquids - revisited, *Chem. Soc. Rev.*, 2014, 43, 847. (cover)
2. F. Coleman, G. Srinivasan and M. Swadźba-Kwaśny, Liquid coordination complexes formed by the heterolytic cleavage of metal halides, *Angew. Chem. Int. Ed. Engl.*, 2013, 52, 12582.
3. M. Currie, J. Estager, P. Licence, S. Men, P. Nockemann, K.R. Seddon, M. Swadźba-Kwaśny and C. Terrade, Chlorostannate(II) ionic liquids – speciation, Lewis acidity and oxidative stability, *Inorg. Chem.*, 2013, 52, 1710. (cover)

4. M. Swadźba-Kwaśny, L. Chancelier, S. Ng, H.G. Manyar, C. Hardacre and P. Nockemann, Facile in situ synthesis of nanofluids based on ionic liquids and copper oxide clusters and nanoparticles, Dalton Trans., 2012, 41, 219. (hot paper)
5. J. Estager, P. Nockemann, K.R. Seddon, M. Swadźba-Kwaśny and S. Tyrrell, Validation of speciation techniques: a study of chlorozincate(II) ionic liquids, Inorg. Chem., 2011, 50, 5258.
6. J. Estager, A.A. Oliferenko, K.R. Seddon and M. Swadźba-Kwaśny, Chlorometallate(III) ionic liquids as Lewis acidic catalysts – a quantitative study of acceptor properties, Dalton Trans., 2010, 39, 11375.