The role of water in hydrogen electrocatalysis

Ledezma Yanez, I.D.

7. List of publications

- I. Ledezma-Yanez, W.D.Z. Wallace, P. Sebastián-Pascual, V. Climent, J.M. Feliu, M.T.M. Koper, “Enhancement of hydrogen evolution rates on platinum electrodes by controlling interfacial water reorganization” (submitted).

- I. Ledezma-Yanez, M.T.M. Koper, “Influence of water on the hydrogen evolution reaction on a gold electrode in acetonitrile solution” (submitted).

- I. Ledezma-Yanez, Elena Pérez Gallent, M.T.M. Koper, F. Calle-Vallejo, "Structure-sensitive electroreduction of acetaldehyde to ethanol on copper and its mechanistic implications for CO and CO_2 reduction". *Catalysis Today,* 262 (2016) 90-94.

- M. C. Figueiredo, I. Ledezma-Yanez, M.T.M. Koper, “*In situ* spectroscopic study of CO_2 electroreduction at copper electrodes in acetonitrile”, ACS Catalysis, 6 (2016) 2382–2392.

- I. Ledezma-Yanez, O. Díaz-Morales, M. C. Figueiredo, M.T.M. Koper, “Hydrogen oxidation and hydrogen evolution on a platinum electrode in acetonitrile” *ChemElectroChem,* 2 (2015) 1612-1622.

- O. Diaz-Morales, I. Ledezma-Yanez, M.T.M. Koper and F. Calle-Vallejo, “Guidelines for the rational design of Ni-based double hydroxide electrocatalysts for the oxygen evolution reaction”, *ACS Catalysis*, 5 (2015) 5380–5387.

- J. Shen, R. Kortlever, R. Kas, Y. Birdja, O. Diaz-Morales, Y. Kwon, I. Ledezma-Yanez, K. J. Schouten, G. Mul and M.T.M. Koper, “Electrocatalytic reduction of carbon dioxide to carbon monoxide and methane at an immobilized cobalt protoporphyrin in aqueous solution”, *Nature Communications* 6 (2015) 8177.

- Lenys Fernández, I. Ledezma, Carlos Borrás, Luis Alfredo Martínez, Hermes Carrero, "Horseradish peroxidase modified electrode based on a film of Co-Al layered double hydroxide modified with sodium dodecylbenzenesulfonate for determination of 2-chlorophenol" *Sensors and Actuators B*, 182 (2013) 625-632.