

## Abstract of Presentation

Name:

Inmaculada Rodríguez Ramos

Presentation Title:

Nanostructured catalysts for sustainable chemical processes.

Abstract :

It will be presented the main research lines of the Institute of Catalysis and Petroleochemistry (CSIC) and some of the major innovations that at the nanometer scale have been accomplished in the field of heterogeneous catalysis and that contribute to the environment protection and sustainable development. Specifically, new achievements in catalysts for the production and transformation of energy resources will be described. Thus, it will be reported some of the new developments in: a) electrocatalysts for SOFC and Biofuel cells; b) multifunctional membrane reactors to make better the carbon reutilization and to improve the energy efficiency of chemical processes; c) catalysts for hydrogen purification and storage. In addition, some new developments in photocatalytic materials active under visible light for pollutants removal will be showed.