

Nanomaterials and nanostructures for environmental solutions

Water and air pollution caused by hazardous substances has become a global concern. and many efforts are being made for the detection and degradation of pollutants.

Our proposal in this direction is the design of materials based on nanostructures synthesised by soft methods for the design of sensors, the removal of heavy metal cations and the degradation of organic matter with sunlight.

In this seminar I will discuss the synthesis strategies and properties of some nanostructures synthesised in our group, with emphasis on the structural features that determine their performance.

Index:

- Nanomaterials and nanostructures
- Photocatalysis
- Removal of cations with calibrated pores
- Enzymes and nanozymes