PhD Candidate Profile

Name:

Oscar Cabezuelo Gandia

Research Group (if relevant):

N/A

Research Centre (if relevant):

Instituto mixto de Tecnología Química, ITQ (UPV-CSIC)

Department/School(s) (if relevant):

Department of Chemistry

College:

Universitat Politècnica de València, Valencia

Supervisor(s):

Prof .Dr. Maria Luisa Marin and Dr. Francisco Bosca

Funding body:

Program for the training of research personnel (FPI) of Universidad Politécnica de Valencia - subprogram 1

Area (field) of study:

Removal of organic pollutants from wastewater by advanced oxidation processes

Thesis Title:

Design and synthesis of novel photocatalysts for wastewater treatment

Abstract:

Due to the industrialization and the agricultural development together with the fast population growth, a drastic decrease in the availability of non-polluted water sources is observed. Developments performed in the field of advanced oxidation processes (AOPs) have led to an improvement of the water purification methods for the abatement of contaminants. Among the so-called AOPs, photocatalysis is a promising way for the removal of pollutants in water.

Hence, the goal of this thesis is the design and synthesis of novel heterogeneous photocatalysts for the removal of pollutants from wastewater through advanced oxidation processes assisted by solar light. Thus, these new photocatalysts will be based on the *core@shell* and *core@organic* structures.

Collaborations:

N/A

AOPs PhD School

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Publications:

N/A

Presentations:

3rd European Summer School of Environmental Applications On Advanced Oxidation Processes (IPSAOP), Alcoi, Spain, 3 – 7 June 2019 (Poster)