

PhD Candidate Profile

Name:

Kelly Johana Castañeda

Research Group:

Solar Treatment of Water Unit

Research Centre:

CIEMAT

Department/School(s):

Plataforma Solar de Almería

**College:****Supervisor(s):**

Dra. Inmaculada Polo López and Prof. Sixto Malato Rodríguez

Funding body:

N/A

Area (field) of study:

Wastewater treatment.

Thesis Title:

Recovery of different wastewater through advanced treatment technologies that allow its safe reuse in irrigation.

Abstract:

The general objective of this project is to assess conventional treatments of ozonation and UV-C radiation with solar assisted as competitive tertiary treatments for Urban Waste water (UWW); this process will be done at pilot plant scale with different operational conditions and will be tested to select best treatment condition for UWW reclamation.

Then, crops of lettuce and radish will be grown in culture chamber under controlled conditions and they will be irrigated with the reclaimed UWW obtained by each treatment investigated. In this project water pathogens and CECs transfer from UWW to crops tissues will be analysed.

Collaborations:

N/A

Publications:

N/A



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Presentations:

N/A