

BIOGRAPHY:

I studied Chemistry at UAL (Spain), where I have earned my PhD (December 2008), receiving the best qualification *cum laude*, under the supervision of Prof. Fernando López-Ortiz and Prof. Ignacio Fernández. More details could be found in my CV. Afterwards, I expanded my horizons through three postdoctoral research opportunities:

a) Firstly, I spent 7 months in the industry working at Deretil's in the department of research and development. I was involved in the research and development of new methods to improve the synthesis of interesting compounds, notably industrially-relevant fine chemicals.

b) Secondly, I worked for 2 years and 7 months in the research group of Prof. Frank Breher at the KIT, where I was mainly supported by a fellowship from the **Alexander von Humboldt Foundation**. My research was focused on: i) Synthesis of new heterobimetallic complexes supported by ambidentate ligands and their characterization with special emphasis on their electrochemical properties and catalytic activity; ii) Rare Earth complexes applied in luminescent materials and to support *sulphur dioxide* SO_2 ; iii) Advanced main group chemistry; iv) Synthesis of metallic clusters.

c) Then, I was at UC Berkeley with Prof. Don Tilley supported by an **International Outgoing Fellowship** of the 7th FP People Marie Curie Actions. My research established the synthesis of dinuclear homobimetallic complexes that could potentially reduce *carbon dioxide* into useful chemicals that could serve as carbon-neutral energy sources or industrially-relevant feedstocks, in the context of alternatives to fossil fuels.

d) Finally, I got a **Ramón y Cajal contract** at ITQ in Valencia. My research was focused on small molecules activation (such as H_2O , H_2 , O_2 , CO_2 and CH_4) with heterometallic complexes, which are used as building blocks of well-defined materials in the heterogenization processes.

Currently, I am **Research at ITQ and Associated Professor at UAL**. Moreover, I am principal investigator of 5 research project & 2 private contracts with industry.