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- **Current Position:** Technical Support Staff

- **Research Topics:**

Since 2003, I have carried out my research activity in the group Advanced Separation Processes under the leadership of Prof. Inmaculada Ortiz. My research activity is focused on the following topics:

- Research and development of novel **advanced oxidation processes** (UV/H₂O₂, Fenton, photo-Fenton, ...) to carry out the degradation/mineralization of recalcitrant organic compounds in bench and pilot plant scale.
- Research and development of **ion exchange processes** to the advanced treatment of wastewater effluents.

Since 2007 and currently my research activity is focused on provide **technical and analytical support** to research projects:

- Technical responsible in accredited laboratory by ENAC for the performance of testing in environmental samples according to the criteria in UNE-EN ISO/IEC 17025
- Control and maintenance of analytical facilities (GC, HPLC, TOC, ...)
- Developing and applying standardised analytical methodologies
- Analytical assistance to private companies and public institutions

- **International Publications (since 2009):**

- J. Pinedo, R. Ibañez, O. Primo, A. Irabien, "Hydrocarbons Analysis for Risk Assesment in Polluted Soils" **Chemical Engineering Transactions**. Volume 28, Pages 79 - 84 (2012).
- B. Foereid, M.J. Rivero, O. Primo, I. Ortiz "Modelling Photodegradation in the Global Carbon Cycle" **Soil Biology & Biochemistry**. Volume 43, Pages 1383 – 1386 (2011).
- O. Primo, M.J. Rivero, A.M. Urriaga, I. Ortiz "Nitrate removal from electro-oxidized landfill leachate by ion exchange" **Journal of Hazardous Materials**. Volume 164, Issue 1, Pages 389 - 393 (2009).

- **Contributions to International Conferences:**

I have participated in more than 10 International Conferences on Chemical Engineering. Contributions since 2012 are:

- J. Pinedo, O. Primo, R. Ibañez, A. Irabien, "Determination of Total Petroleum Hydrocarbons (TPH) Fractions in Polluted Soils" [XXXIV Reunión Bienal de la Sociedad Española de Química \(RSEQ\)](#). 15 – 18, September 2013, Santander (Spain). Poster.
- O. Primo, J. Pinedo, R. Ibañez, A. Irabien, "Quality Assurance in the Determination of Total Petroleum Hydrocarbons (TPH) in Soil by GC-FID" [XII Reunión Científica de la Sociedad Española de Cromatografía y Técnicas Afines \(SECyTA\)](#). 14 – 16, November 2012, Tarragona (Spain). Poster.
- J. Pinedo, R. Ibañez, O. Primo, A. Irabien, "*Hydrocarbons analysis for risk assessment in polluted soils*" [3 rd International Conference on Contaminated Sites Remediation \(BOSICON\)](#). 12 – 14, September 2012, Rome (Italy). Poster.

- **R&D Projects:**

i) Funded by public institutions:

Title: [Advanced Oxidation Technologies for the Improvement of Landfill Leachates Treatment](#)

Participant entities: Spanish Ministry of Economy and Competitiveness / University of Cantabria

Duration, since January 2013 to January 2016.

Main researcher: M.J. Rivero

Title: [National Programme for Recruitment and Incorporation of Human Resources - Subprogramme: Technical support staff](#)

Participant entities: Spanish Ministry of Science and Innovation / University of Cantabria

Duration, since January 2011 to January 2014.

Main researcher: I. Ortiz

Title: [IDICAN Programme - I Regional Plan for Scientific Research](#)

Participant entities: Regional Government of Cantabria / University of Cantabria

Duration, since October 2007 to September 2010.

Main researcher: I. Ortiz

ii) Collaborative projects with companies:

Title: [Technical support to the study of advanced oxidation processes for wastewater treatment with high level of refractory organic matter](#)

Participant entities: Dynasol, S.A. / University of Cantabria

Duration, since July 2012 to January 2013.

Main researcher: A.M. Urtiaga

Title: [Technical support to the study of water reuse in industrial activities](#)

Participant entities: Dynasol, S.A. / University of Cantabria

Duration, since August 2010 to April 2011.

Main researcher: A.M. Urtiaga

Title: [Viability study of grey waters treatment by advanced oxidation processes](#)

Participant entities: Dinotec Sama, S.L. / University of Cantabria

Duration, since October 2007 to March 2010.

Main researcher: M.J. Rivero