

Israel Díaz Villalobos

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Affiliation

Position: Post-Doc researcher
University: Dpt. of Chemical Engineering and Environmental Technology. *University of Valladolid (UVA)*
Research Adviser: Prof. Fernando Fdz-Polanco.

Professional Experience

11/2013 – Actual *Post-Doc researcher at UVA. Valladolid, Spain.*

- *Biogas upgrading by biological conversion of H₂ and CO₂ to CH₄.*

11/2011 – 10/2013 *Post-Doc researcher at UFBA. Salvador, Bahia. Brazil. Supervisor: Ph.D. Luciano Matos Queiroz*

- *Removal of nitrogen from wastewater via nitrite pathway.*
- *Water & energy use by relocated population from high poverty areas.*

10/2007 – 09/2011 *Ph.D. researcher at UVA. Valladolid, Spain. Sup.: Ph.D. María Fdz-Polanco*

- *Microaerobic removal of H₂S from biogas.*
- *Sulfur management in biological wastewater treatment processes.*

09/2006 – 07/2007 *Pre-doctoral researcher at WUR. Wageningen, The Netherlands. Sup.: Prof. Jules van Lier*

- *Anaerobic membrane bioreactors.*

Qualifications

18/03/2011 Ph.D. in Process and Systems Engineering. *University of Valladolid, Spain*
 07/11/2007 Chemical Engineer (MEng), *University of Valladolid, Spain*

Scientific publications**Publications in indexed journals**

Number of publications: 8

Total citations: 97

H-index: 5 ([Bibliometrics](#))

Ramos, I., [Díaz, I.](#), Fdz-Polanco, M. 2012. The role of the headspace in hydrogen sulfide removal during microaerobic digestion of sludge. *Water Science and Technology*, 66(10), 2258-2264.

[Díaz, I.](#), Fdz-Polanco, M. 2012. Robustness of the microaerobic removal of hydrogen sulfide from biogas. *Water Science and Technology*, 65(8), 1368-1374.

[Díaz, I.](#), Donoso-Bravo, A., Fdz-Polanco, M. 2011. Effect of microaerobic conditions on the degradation kinetics of cellulose. *Bioresource Technology*, 102(21), 10139-10142.

[Díaz, I.](#), Lopes, A.C., Perez, S.I., Fdz-Polanco, M. 2011. Determination of the optimal rate for the microaerobic treatment of several H₂S concentrations in biogas from sludge digesters. *Water Science and Technology*, 64(1), 233-238.

[Díaz, I.](#), Perez, S.I., Ferrero, E.M., Fdz-Polanco, M. 2011. Effect of oxygen dosing point and mixing on the microaerobic removal of hydrogen sulphide in sludge digesters. *Bioresource Technology*, 102(4), 3768-3775.

[Díaz, I.](#), Lopes, A.C., Perez, S.I., Fdz-Polanco, M. 2010. Performance evaluation of oxygen, air and nitrate for the microaerobic removal of hydrogen sulphide in biogas from sludge digestion. *Bioresource Technology*, 101(20), 7724-7730.

Fdz-Polanco, M., [Díaz, I.](#), Perez, S.I., Lopes, A.C., Fdz-Polanco, F. 2009. Hydrogen sulphide removal in the anaerobic digestion of sludge by micro-aerobic processes: pilot plant experience. *Water Science and Technology*, 60(12), 3045-3050.

Jeison, D., [Díaz, I.](#), van Lier, J.B. 2008. Anaerobic membrane bioreactors: Are membranes really necessary? *Electronic Journal of Biotechnology*, 11(4).

Book chapter

[Díaz, I.](#), Pérez, S.I., Fdz-Polanco M. 2010. Planta de producción de Biogás in *Energía de la Biomasa (volumen II)*. 267-323. Universidad de Zaragoza, Zaragoza. ISBN: 978-84-15031-01-7.

Contributions to conferences and meetings

International Congresses and Workshops

Oral Presentation: 3

Poster: 4

National Congresses and Workshops

Oral presentation: 1

Platform presentations:

[Díaz, I.](#), Lopes, A.C., Pérez, S.I., Fdz-Polanco M. 2010. Microaerobic treatment of H₂S in biogas: Removal capacity and optimal oxygen rate. *12th World Congress on Anaerobic Digestion*. Guadalajara. Mexico.

[Díaz, I.](#), Lopes A.C., Pérez, S.I., Ramos I., Fdz-Polanco M. 2010 Microaerobic removal of H₂S produced during anaerobic digestion of sludge. Influence of operational conditions. *Young Water Professionals Spain*. Barcelona, Spain.

Ramos, I., [Díaz, I.](#), Fdz-Polanco, M. 2011. The role of the headspace during the hydrogen sulphide removal in a microaerobic digester of sludge. *X Oficina e Simposio Latino-Americano de Digestão Anaerobia (X DAAL)*. Brazil.