

Ivet Ferrer, PhD. Curriculum vitae



PROFESSIONAL CONTACT DETAILS

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PERSONAL DETAILS

Date of Birth: 11 January 1978
Place of Birth: Barcelona
Nationality: Spanish

CURRENT POSITION

May11-now Associate professor, Department of Hydraulic, Maritime and Environmental Engineering (DEHMA),
Universitat Politècnica de Catalunya (UPC)
Sept06-April11 Assistant professor, DEHMA, UPC
Oct08-Feb14 Head of the Section Environmental and Sanitary Engineering, DEHMA, UPC

EDUCATION

2010 Postdoc (4 months), Wageningen University and Research Centre (WUR), Wageningen, The Netherlands
Topic: Autogenerative High Pressure Digestion
2009 Postdoc (4 months), Laboratory of Environmental Biotechnology (LBE), French National Institute for Agricultural Research (INRA), Narbonne, France
Topic: Sludge pretreatment and energy assessment
2003-2008 PhD Environmental Science, Universitat Autònoma de Barcelona (UAB), Spain
Thesis: Study of the effect of process parameters on the thermophilic anaerobic digestion of sewage sludge, evaluation of a thermal sludge pre-treatment and overall energy assessment
2002-2003 MSc Environmental Diagnostics, Cranfield University, United Kingdom
Thesis: Design and start-up of an anaerobic digester for sewage sludge treatment
1999-2002 MSc Agricultural Engineering & MSc Forestry Engineering, University of Lleida, Spain
Thesis: Anaerobic biodegradability of water hyacinth, *Eichornia crassipes*
2001 Internship Program Agroecology & Sustainable Agriculture (2 months), University of La Habana, Cuba
1996-1999 BSc Agricultural Engineering, Universitat Politècnica de Catalunya (UPC), Barcelona, Spain
Thesis: Integration of arbuscular mycorrhizal fungus and pathogen antagonists in crop systems

LANGUAGE SKILLS

English Certificate of Proficiency in English, University of Cambridge (June 2005)
French Basic Knowledge (A2)
Spanish Native
Catalan Native

PARTICIPATION IN RESEARCH PROJECTS

- 2016-2019 Innovative Eco-Technologies for Resource Recovery from Wastewater – INCOVER, funded by the EU H2020, with participation of the Environmental Engineering and Microbiology Research Group (GEMMA,UPC)
- 2016-2020 Sustainable Product, Energy and Resource Recovery from Wastewater - SuPER-W, funded by the EU H2020, with participation of GEMMA (UPC)
- 2015-2017 Biogas production from microalgae-bacteria grown in closed photobioreactors for wastewater treatment - FOTOBIOGAS, financed by the Spanish Ministry of Economy and Competitiveness, subproject coordinated by the GEMMA (UPC)
- 2014-2016 ECOTEchnologies for WAter Treatment and recovery of resources – ECOWAT, financed by the Spanish Ministry of Economy and Competitiveness, coordinated by GEMMA (UPC)
- 2013-2017 European network on ecological functions of trace metals in anaerobic biotechnologies (ES1302), COST Action with participation of the GEMMA (UPC)
- 2011-2013 Biotechnology for Africa's Water Supply – WATERBIOTECH, funded by the EU 7th FP, with participation of GEMMA (UPC)
- 2011-2013 Biogas production from algae biomass produced in high rate ponds for wastewater treatment - BIOALGAS, financed by the Spanish Ministry of Science and Innovation, coordinated by GEMMA (UPC)
- 2010 Biodigesters: energy and sanitation for rural households, financed by the Foundation Caja Navarra, coordinated by the Research Group on Cooperation and Human Development (GRECDH-UPC)
- 2009-2010 Research program for the development of sustainable biomass-based energy systems in rural areas of Andean Countries, financed by the Centre for Development Cooperation (CCD-UPC), coordinated by GRECDH (UPC)
- 2008-2012 Auto-generative high pressure biogas processes for 'green energy' production, financed by the Dutch Government (SenterNovem funding institute), coordinated by Wageningen University and Research Centre
- 2008-2010 Integrated solution for sewage and sludge treatment in small communities by means of constructed wetlands systems, financed by the Spanish Ministry of Environment, coordinated by CENTA, with participation of GEMMA (UPC)
- 2008-2010 Drying reed beds for sludge treatment: assessment of process performance, design and operation criteria, financed by the Spanish Ministry of Environment, coordinated by GEMMA (UPC)
- 2008-2010 Research program for the development of energy systems in rural areas of developing countries, financed by the Catalan Agency for Development Cooperation, coordinated by GRECDH (UPC)
- 2008-2009 Research program for the development of sustainable biomass-based energy systems in rural areas of Andean Countries, financed by the Centre for Development Cooperation (CCD-UPC), coordinated by GRECDH (UPC)
- 2007-2008 Drying reed beds for sludge treatment: assessment of process performance, design and operation criteria, financed by the Spanish Ministry of Environment, coordinated by GEMMA (UPC)
- 2007-2010 Technological developments towards sustainable urban water cycle (SOSTAQUA), financed by the Spanish Ministry of Education, coordinated by AGBAR, with participation of GIRO Technological Centre
- 2002-2005 Strategies for the enhancement of the thermophilic anaerobic digestion of sewage sludge: study of one and two stage systems, and sludge pre-treatment processes, financed by the Spanish Ministry of Science and Technology, coordinated by the Composting Research Group (GICOM-UAB)
- 1998-2000 Integration of arbuscular mycorrhizal fungus in strawberry crop systems using alternative methods to soil chemical disinfections for pathogens control, financed by the Spanish Ministry of Science and Technology, coordinated by the Agrofood Research and Technology Institute (IRTA)

ARTICLES IN REFEREED JOURNALS (included in the JCR)

- 2016 Uggetti, E., Passos, F., Solé, M., Garfí, M., Ferrer, I. (2016) Recent Achievements in the Production of Biogas from Microalgae. *Waste and Biomass Valorisation*, in press.
- Garfí, M., Martí-Herrero, J., Garwood, A., Ferrer, I. (2016) Household anaerobic digesters for biogas production in Latin America: a review. *Renewable and Sustainable Energy Reviews*, 60, 599-614.
- Gutiérrez, R., Ferrer, I., Uggetti, E., Arnabat, C., Salvadó, H., García, J. (2016) Settling velocities distribution of microalgal biomass from urban wastewater high rate algal ponds. *Algal Research*, 16, 409-417.
- Carrère, H., Antonopoulou, G., Affes, R., Passos, F., Battimelli, A., Lyberatos, G., Ferrer, I. (2016) Review of feedstock pretreatment strategies for improved anaerobic digestion: from lab-scale research to full-scale application. *Bioresource Technology*, 199, 386-397.
- Passos, F., Hom-Díaz, A., Blanquez, P., Vicent, T., Ferrer, I. (2016) Improving biogas production from microalgae by enzymatic pretreatment. *Bioresource Technology*, 199, 347-351.
- 2015 Passos, F., Carretero, J., Ferrer, I. (2015) Comparing pretreatment methods for improving microalgae anaerobic digestion: thermal, hydrothermal, microwave and ultrasound. *Chemical Engineering Journal*, 279, 667-672.
- Passos, F., Gutiérrez, R., Brockmann, D., Steyer, J-P., García, J. Ferrer, I., (2015) Microalgae production in wastewater treatment systems, anaerobic digestion and modelling using ADM1. *Algal Research*, 10, 55-63.
- Gutiérrez, R., Passos, F., Ferrer, I., Uggetti, E., García, J. (2015) Harvesting microalgae from wastewater treatment systems with natural flocculants: effect on biomass settling and biogas production. *Algal Research*, 9, 204-2011.
- Gutiérrez, R., Ferrer, I., García, J., Uggetti, E. (2015) Influence of starch on microalgal biomass recovery, settleability and biogas production. *Bioresource Technology*, 185, 341-345.
- Matamoros, V., Gutiérrez, R., Ferrer, I., García, J., Bayona, J.M. (2015) Capability of microalgae-based wastewater treatment systems to remove emerging organic contaminants: a pilot-scale study. *Journal of Hazardous Materials*, 288, 34-42.
- Passos, F., Ferrer, I. (2015) Influence of hydrothermal pretreatment on microalgal biomass anaerobic digestion and bioenergy production. *Water Research*, 68, 364-373.
- 2014 Passos, F., Ferrer, I. (2014) Microalgae conversion to biogas: thermal pretreatment contribution on net energy production. *Environmental Science and Technology*, 48, 7171-7178.
- Passos, F., Uggetti, E., Carrère, H., Ferrer, I. (2014) Pretreatment of microalgae to improve biogas production: a review. *Bioresource Technology*, 172, 403-412.
- Passos, F., Astals, S., Ferrer, I. (2014) Anaerobic digestion of microalgal biomass after ultrasound pretreatment. *Waste Management*, 34, 2098-2103.
- Passos, F., Hernández-Mariné, M., García, J., Ferrer, I. (2014) Long-term anaerobic digestion of microalgae grown in HRAP for wastewater treatment. Effect of microwave pretreatment. *Water Research*, 49(1), 351-359.
- Pérez, I., Garfí, M., Cadena, E., Ferrer, I. (2014) Technical, economic and environmental assessment of household biogas digesters for rural communities. *Renewable Energy*, 62, 313-318.
- 2013 Passos, F., García, J., Ferrer, I. (2013) Impact of low temperature pretreatment on the anaerobic digestion of microalgal biomass. *Bioresource Technology*, 138, 79-86.
- Passos, F., Solé, M., García, J., Ferrer, I. (2013) Biogas production from microalgae grown in wastewater: effect of microwave pre-treatment. *Applied Energy*, 108, 168-175.
- Lindeboom, R., Ferrer, I., Weijma, J., van Lier, J.B. (2013) Effect of substrate and cation requirement on anaerobic volatile fatty acid conversion rates at elevated biogas pressure. *Bioresource Technology*, 150, 60-66.

- Lindeboom, R., Ferrer, I., Weijma, J., van Lier, J.B. (2013) Silicate minerals for CO₂ scavenging from biogas in Autogenerative High Pressure Digestion. *Water Research*, 47, 3742-3751.
- 2012 Uggetti, E., Ferrer, I., Arias, C., Brix, H., García, J. (2012) Carbon footprint of sludge treatment reed beds. *Ecological Engineering*, 44, 298-302.
- Uggetti, E., Ferrer, I., Carretero, J., García, J. (2012) Performance of sludge treatment wetlands using different plant species and porous media. *Journal of Hazardous Materials*, 217-218, 263-270.
- Uggetti, E., García, J., Lind, S. E., Martikainen, P. J., Ferrer, I. (2012) Quantification of greenhouse gas emissions from sludge treatment wetlands. *Water Research*, 46, 1755-1762.
- Uggetti, E., Ferrer, I., Nielsen, S., Arias, C., Brix, H., García, J. (2012) Characteristics of biosolids from sludge treatment wetlands for agricultural reuse. *Ecological Engineering*, 40, 210-216.
- Uggetti, E., Argilaga, A., Ferrer, I., García, J. (2012) Dewatering model for optimal operation of sludge treatment wetlands. *Water Research*, 46(2), 335-344.
- Garfí, M., Ferrer-Martí, L., Velo, E., Ferrer, I. (2012) Evaluating benefits of low-cost household digesters for rural Andean communities. *Renewable and Sustainable Energy Reviews*, 16, 575-581.
- 2011 Garfí, M., Gelman, P., Comas, J., Carrasco, W., Ferrer, I. (2011) Agricultural reuse of the digestate from low-cost tubular digesters in rural Andean communities. *Waste Management*, 31, 2584-2589.
- Ferrer, I., Garfí, M., Uggetti, E., Ferrer-Martí, L., Calderón, A., Velo, E. (2011) Biogas production in low-cost household digesters at the Peruvian Andes. *Biomass and Bioenergy*, 35, 1668-1674.
- Garfí, M., Ferrer-Martí, L., Villegas, V., Ferrer, I. (2011) Psychrophilic anaerobic digestion of guinea pig manure in low-cost tubular digesters at high altitude. *Bioresource Technology*, 102, 6456-6359.
- Garfí, M., Ferrer-Martí, L., Pérez, I., Flotats, X., Ferrer, I. (2011) Codigestion of cow and guinea pig manure in low-cost tubular digesters at high altitude. *Ecological Engineering*, 37, 2066-2070.
- Uggetti, E., Ferrer, I., Molist, J., García, J. (2011) Technical, economic and environmental assessment of sludge treatment wetlands. *Water Research*, 45, 573-582.
- Ferrer, I., Vázquez, F., Font, X. (2011) Comparison of the mesophilic and thermophilic anaerobic sludge digestion from an energy perspective. *Journal of Residuals Science and Technology*, 8, 81-87.
- Bravo, L., Ferrer, I. (2011) Life Cycle Assessment of an intensive sewage treatment plant in Barcelona (Spain) with focus on energy aspects. *Water Science and Technology*, 64(2), 440-447.
- 2010 Ferrer, I., Vázquez, F., Font, X. (2010) Long term operation of a thermophilic anaerobic reactor: process stability and efficiency at decreasing sludge retention time. *Bioresource Technology*, 101(9), 2972-2980.
- Carrère, H., Dumas, C., Battimelli, A., Batstone, D.J., Delgenès, J.P., Steyer, J-P., Ferrer, I. (2010) Pretreatment methods to improve sludge anaerobic degradability: a review. *Journal of Hazardous Materials*, 183, 1-15.
- Ferrer, I., Palatsi, J., Campos, E., Flotats, X. (2010) Mesophilic and thermophilic anaerobic biodegradability of water hyacinth pre-treated at 80°C. *Waste Management*, 30, 1763-1767.
- Uggetti, E., Ferrer, I., Llorens, E., García, J. (2010) Sludge treatment wetlands: a review on the state of the art. *Bioresource Technology*, 101(9), 2905-2912.
- 2009 Uggetti, E., Llorens, E., Pedescoll, A., Ferrer, I., Castellnou, R., García, J. (2009) Sludge dewatering and stabilization in drying reed beds: characterization of three full-scale systems in Catalonia, Spain. *Bioresource Technology*, 100(17), 3882-3890.
- Ferrer, I., Gamiz, M., Almeida, M., Ruiz, A. (2009) Pilot project of biogas production from pig manure and urine mixture at ambient temperature in Ventanilla (Lima, Peru). *Waste Management*, 29(1), 168-173.
- Palatsi, J., Giménez-Lorang, A., Ferrer, I., Flotats, X. (2009) Start-up strategies of thermophilic anaerobic digestion of sewage sludge. *Water Science and Technology*, 59(9), 1777-1784.

- Ferrer, I., Serrano, E., Ponsá, S., Vázquez, F., Font, X. (2009) Enhancement of thermophilic anaerobic sludge digestion by 70°C pre-treatment: energy considerations. *Journal of Residuals Science and Technology*, 6(1), 11-18.
- Uggetti, E., Llorens, E., Pedescoll, A., Ferrer, I., Castellnou, R., García, J. (2009) Sludge drying reed beds: a case study. *Journal of Residuals Science and Technology*, 6(1), 57-59.
- 2008 Ferrer, I., Ponsá, S., Vázquez, F., Font, X. (2008) Increasing biogas production by thermal (70°C) sludge pretreatment prior to thermophilic anaerobic digestion. *Biochemical Engineering Journal*, 42(2), 186-192.
- Ponsá, S., Ferrer, I., Vázquez, F., Font, X. (2008) Optimization of the hydrolytic–acidogenic anaerobic digestion stage (55°C) of sewage sludge: Influence of pH and solid content. *Water Research*, 42(14), 3972-3980.
- 2007 Climent, M., Ferrer, I., Baeza, M.M., Artola, A., Vázquez, F., Font, X. (2007) Effects of thermal and mechanical pretreatments of secondary sludge on biogas production under thermophilic conditions. *Chemical Engineering Journal* 133, 335-342.

ARTICLES IN REFEREED JOURNALS (not included in the JCR)

- 2015 Ferrer-Martí, L., Garfí, M., Ferrer, I. (2015) Cooperation and Human Development Projects as Bachelor, Master and PhD Thesis: Evaluating an Internship Program. *Procedia - Social and Behavioral Sciences* 196, 63-68.
- 2011 Aguirre, P., Álvarez, E., Ferrer, I., García, J. (2011) Treatment of piggery wastewater in experimental high rate algal ponds. *Revista Latinoamericana de Biotecnología Ambiental y Algal*, 2(2), 57-66. ISSN: 2007-2570.
- 2009 Poggio, D., Ferrer, I., Batet, L., Velo, E. (2009) Adaptation of plastic tubular biodigesters to cold climates. *Livestock Research for Rural Development*, 21(9), Article #152.
<http://www.lrrd.org/lrrd21/9/pogg21152.htm>

ARTICLES IN NON-REFEREED JOURNALS

- 2013 Ferrer, I., Passos, F., Gutiérrez, R., García, J. (2013) Producción de biogás a partir de microalgas cultivadas en aguas residuales. *aguasresiduales.info*
http://aguasresiduales.info/main/index.php?md_0=4&md_1=&id=5832&_pag=1
- 2012 García, J., Passos, F., Mena, J., Ferrer, I. (2012) Biocombustibles a partir de microalgas cultivadas en aguas residuales. *Automática e Instrumentación*, 437, 2-4.
- Ferrer, I., Cadena, E., Mas, A., Torras, A. (2012) Huella de carbono y demanda energética del consumo de alimentos: un caso de estudio. *Residuos* 129, 28-33.
- 2010 Uggetti, E., Ferrer, I., Castellnou, R., Molist, J., García, J. (2010) Tratamiento de lodos de depuradora con humedales artificiales. *Infoenviro*, 56, 68-71. ISSN: 1699-2520. DL: M-47480-2004.
- 2010 Ferrer, I., Serrano, E., Ponsá, S., Vázquez, F., Font, X. (2009) Energy assessment of the thermophilic anaerobic digestion of sludge pre-treated at 70 °C. *Infoenviro*, 46, 63-66. ISSN: 1699-2520. DL: M-47480-2004.
- Poggio, D., Ferrer, I., Batet, L., Velo, E. (2009) Adaptation of plastic tubular biodigesters to cold climates. *Livestock Research for Rural Development*, 21(9), Article #152.
<http://www.lrrd.org/lrrd21/9/pogg21152.htm>
- Poggio, D., Paiva, M., Ferrer, I., Velo, E. (2009) Biodigestores de Bajo Coste para Climas Andinos. *Revista Brasileira de Agroecologia*, 4(2), 4508-4511. ISSN: 1980-9735.
<http://www.aba-agroecologia.org.br/ojs2/index.php/rbagroecologia/article/view/9099>
- 2004 Ferrer, I., Fornés, O., Ferrer, O., Gordillo M.A., Font, X. (2004) An effective and economic system for the measurement of biogas production in batch assays. *Tecnología del agua*, 253, 50-54. ISSN: 0211-8173. DL: B.4156-84.

BOOKS

- 2010 Uggetti, E., Ferrer, I., Castellnou, R., García, J. (2010). Constructed wetlands for sludge treatment. A sustainable technology for sludge management. Universitat Politècnica de Catalunya, Barcelona, 55 pp.
- 2008 Ferrer, I. (2008) Study of the effect of process parameters on the thermophilic anaerobic digestion of sewage sludge, evaluation of a thermal sludge pre-treatment and overall energetic assessment. PhD Thesis, Universitat Autònoma de Barcelona, 160 p. ISBN: 978-84-692-2128-0. DL: B-21099-2009.
<http://www.tesisenxarxa.net/TDX-0925109-122616/>

BOOK CHAPTERS

- 2015 Passos, F., Uggetti, E., Carrère, H., Ferrer, I. (2015) Algal Biomass: Physical Pretreatments. In: Pretreatment of biomass: processes and technologies. Ed. by Pandey, A., Negi, S., Binod, P., Larroche, C. Elsevier, 195-226, ISBN: 978-0-12-800080-9.
- Uggetti, E., Passos, F., Solé, M., García, J., Ferrer, I. (2015) Biogas from algae via anaerobic digestion. In: Algae Biotechnology: Products and Processes. Ed. by Chisty, Y. & Bux, F. Springer, in press.
- 2010 Uggetti, E., Ferrer, I., Castellnou, R., Molist, J., García, J. (2010) Economic analysis and life cycle approach to compare drying reed beds and conventional treatments for sludge management. In: Constructed wetlands for sludge treatment. Ed. by E. Uggetti, I. Ferrer, R. Castellnou, J. García.
- Uggetti, E., Ferrer, I., Llorens, E., Güell, D., García, J. (2010) Chapter 2: Properties of biosolids from sludge treatment wetlands for land application. In: Water and Nutrient Management in Natural and Constructed Wetlands, Ed. by Vymazal, J. Springer, 9-21. ISBN: 978-90-481-9584-8.
- 2008 Ferrer, I. (2008) Chapter 1: Introduction. In: Biogas Production by Anaerobic Codigestion, Handbook Number 1, Catalan Energy Institute, Catalan Government, 17-21. DL: B-29.655-2008.

CONTRIBUTIONS IN PROCEEDINGS

- 2014 Carrère, H., Passos, F., Antonopoulou, G., Rouches, E., Affes, R., Battimelli, A., Ferrer, I., Steyer, J.P., Lyberatos, G. (2014) Enhancement of anaerobic digestion performance: which pretreatment for which waste? Wasteeng 2014, Rio de Janeiro, Brasil.
- Solé, M., Passos, F., Sicart, A., Ferrer, I. (2014) Codigestion of (pretreated) microalgae and primary sludge: closing the loop in wastewater treatment algal systems. 2nd Young Algaeneers Sysposium, Montpellier-Narbonne, France.
- Passos, F., Brockmann, D., Steyer, J-P., Ferrer, I. (2014) Modelling anaerobic digestion of microalgae grown in wastewater treatment systems using ADM1. 2nd Young Algaeneers Sysposium, Montpellier-Narbonne, France.
- Gutiérrez, R., Passos, F., García, J., Ferrer, I. (2014) Year-round assessment of the sunlight to biogas concept. 2nd Young Algaeneers Sysposium, Montpellier-Narbonne, France.
- Gutiérrez, R., Passos, F., Garfí, M., García, J., Ferrer, I. (2014) Using high rate algal ponds to combine wastewater treatment and bioenergy production from harvested microalgal biomass. Final WATERBIOTECH Conference: Biotechnology for Africa's sustainable water supply. Marrakesh, Morocco.
- Ferrer, I., Cadena, E., Pérez, I., Garfí, A. (2013) Technical, economic and environmental assessment of household biogas digesters in developing countries. 13th World Congress on Anaerobic Digestion 2013, Santiago de Compostela, Spain.
- Passos, F., Ferrer, I. (2013) Comparing pretreatment methods to improve the methane yield of microalgae grown in wastewater. 13th World Congress on Anaerobic Digestion 2013, Santiago de Compostela, Spain.
- 2012 Ferrer, I., Passos, F., García, J. (2012) Microalgae production and wastewater treatment in high rate algal ponds and low-cost tubular photobioreactors. Young Algaeneers Sysposium 2012, Wageningen, The Netherlands. Wageningen Academic Publishers, 24.

- Passos, F., García, J., Ferrer, I. (2012) Biogas production from microalgae grown in wastewater: effect of microwave pretreatment. Young Algaeneers Sysposium 2012, Wageningen, The Netherlands. Wageningen Academic Publishers, 74.
- Ferrer, I., Passos, F., García, J. (2012) Biogas production from microalgae grown in wastewater. Mesa Española de Tratamiento de Aguas (META 12), Almería, España. ISBN: 978-84-15487-33-3, 151-152.
- 2011 Passos, F., García, J., Ferrer, I. (2011). Effect of microwave pretreatment on algae biomass from high rate ponds for wastewater treatment. 1st International Conference on Algal Biomass, Biofuels and Bioproducts, St Louis, USA.
- Ferrer, I., Passos, F., García, J. (2011). Improving the anaerobic biodegradability of algae biomass from high rate ponds for wastewater treatment. III International Congress Smallwat 11, Sevilla, Spain.
- Uggetti, E., Ferrer, I., García, J. (2011). Measurement of greenhouse gasses emissions from constructed wetlands for sludge treatment (STW). III International Congress Smallwat 11, Sevilla, Spain.
- 2010 Ferrer, I., Vázquez, F., Font, X. (2010) Comparison of the mesophilic and thermophilic anaerobic digestion from an energy perspective. Proceedings of the European Conference on Sludge Management (ECSM 10), Budapest, Hungary.
- Uggetti, E., Ferrer, I., Molist, J., García, J. (2010) Technical, economic and environmental analysis of sludge treatment wetlands. Proceedings of the European Conference on Sludge Management (ECSM 10), Budapest, Hungary.
- 2009 Uggetti, E., Pedescoll, A., Llorens, E., Ferrer, I., Castellnou, R., Molist, J., García, J. (2009) Treatment of sludge by means of drying reed beds: technical aspects. Proceedings of 7th International Workshop on Nutrient Cycling and Retention in Natural and Constructed Wetlands, Třeboň, Czech Republic.
- Uggetti, E., Ferrer, I., Llorens, E., García, J. (2009) Treatment processes in sludge drying reed beds. 3rd Wetland Pollutant Dynamics and Control (WETPOL2009), Barcelona, Spain.
- Ferrer, I., Serrano, E., Ponsá, S., Vázquez, F., Font, X. (2009) Optimization of net energy production by means of thermophilic anaerobic digestion of thermally pre-treated sludge (70°C). IV Jornades tècniques de gestió de sistemes de sanejament d'aigües residuals: energia i sanejament, Barcelona, Spain.
- Bonmatí, A., Silvestre, G., Fernández, B., Ferrer, I., Flotats, X. (2009) Anaerobic digestion of sewage sludge. Strategies to improve biogas production and energy balance. IV Jornades tècniques de gestió de sistemes de sanejament d'aigües residuals: energia i sanejament, Barcelona, Spain. DL: B-41.306-2009, 157-170.
- Ferrer, I., Uggetti, E., Poggio, D., Martí, J., Velo, E. (2009) Biogas production from organic wastes in low cost biodigesters. II Congress Sustainable UPC 2015, Barcelona, Spain.
- Llorens, E., Ferrer, I., García, J. (2009) The role of natural wastewater treatment systems in the protection of water resources. II Congress Sustainable UPC 2015, Barcelona, Spain.
- 2008 Ferrer, I., Serrano, E., Ponsá, S., Vázquez, F., Font, X. (2008) Enhancement of thermophilic anaerobic sludge digestion by 70 °C pre-treatment. Proceedings of the European Conference on Sludge Management (ECSM 08), Liège, Belgium.
- Uggetti, E., Llorens, E., Pedescoll, A., Ferrer, I., Castellnou, R., García, J. (2008) Sludge dewatering and mineralisation in two full-scale drying reed beds in Catalonia, Spain. Proceedings of the European Conference on Sludge Management (ECSM 08), Liège, Belgium.
- Ferrer, I., Poggio, D., Mas, A., Batet, L., Velo, E. (2008) Implementation of familiar biodigesters in Peru: experiences of Yanaoca (Cusco) and Ventanilla (Lima). Proceedings of the IV University and Development Cooperation Conference, Barcelona, Spain (in Spanish). ISBN: 978-84-490-2572-3
- Uggetti, E., Llorens, E., Pedescoll, A., Ferrer, I., Castellnou, R., García, J. (2008) Sludge dewatering and mineralisation in two full-scale drying reed beds in Catalonia, Spain. Proceedings of the International Symposium on Sanitary and Environmental Engineering (SIDISA 2008), Florence, Italy.
- Ferrer, I., Serrano, E., Ponsá, S., Vázquez, F., Font, X. (2008) Energy assessment of the thermophilic anaerobic digestion of sludge pre-treated at 70 °C. Proceedings of the Spanish Water Treatment Network (META 08), Tenerife, Spain.

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- Ferrer, I., Poggio, D., Mas, A., Batet, L., Velo, E. (2008) Research Group on Development Cooperation and Human Development (GRECDH-UPC). Implementation and technological improvement of familiar biogas plants in Andean Countries. Proceedings of the Spanish Water Treatment Network (META 08), Tenerife, Spain.
- 2007 Ferrer, I., Gamiz, M., Almeida, M., Ruiz, A. (2007) Viability of biogas production from pig manure under psychrophilic conditions in *Parque Porcino de Ventanilla* (Peru). Proceedings of the IWA Workshop Anaerobic Digestion in Mountain Areas and Isolated Rural Zones, Chambéry, France.
- Ferrer, I., Vazquez, F., Palatsi, J., Fernández, B., Flotats, X. (2007) Anaerobic digestion as a key process for sustainable organic waste management and energy production. Pathways to our common future: proceedings of the AGS Annual Meeting 2007, Barcelona, Spain. ISBN: 978-91-976534-2-8, 43-44.
- Llorens, E., Ferrer, I., Garcia, J. (2007) The role of natural wastewater treatment systems in the protection of water resources. Pathways to our common future: proceedings of the AGS Annual Meeting 2007, Barcelona, Spain. ISBN: 978-91-976534-2-8, 92-93.
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