

Part A. PERSONAL INFORMATION		CV date	20/07/2018
First and Family name	Inmaculada Fernández Escobar		
Social Security, Passport, ID number	52205285T	Age	47
Researcher numbers	Researcher ID	S-2906-2018	
	Orcid code	0000-0002-9451-0444	

A.1. Current position

Name of University/Institution	Institute of Environmental Assessment and Water Research (IDAEA) Spanish Council for Scientific Research (CSIC)		
Department	Environmental Chemistry Department		
Address and Country	C/ Jordi Girona, 18-26. 080034 Barcelona (SPAIN)		
Phone number	93 400 61 00	E-mail	lnma.fernandez@idaea.csic.es
Current position	Specialist Technical Supervisor	From	Sep. 2010
Espec. cód. UNESCO	252391		
Palabras clave	Gas Chromatography, Mass spectrometry environmental organic pollution, sampling, mountain áreas, wáter samples		

A.2. Education

PhD	University	Year
Degree in Chemistry	Barcelona University	1993
Master..in Enviromental Chemistry	Barcelona University	1994

A.3. JCR articles, h Index, thesis supervised...

Specialist Technical Supervisor in Gas Chromtography. Technical activity focused on supporting research.

No sexenios available.

Part B. CV SUMMARY (max. 3500 characters, including spaces)

Since 2009, my main activity has been as a Technical Supervisor on the Gas Chromatography service in the CID (Research and Development Center) which has given to me strong expertise in the use of analytical techniques such as:

- Gas Chromatography (with detectors: ECD, NPD, FPD, FID, MS etc)
- Mass spectrometry
- Liquid Chromatography

At the stage of the doctoral thesis, (still pending of presentation) my research was focused on the development and validation of analytical methodologies through Supercritical Fluid Extraction (SFE) and Gas Chromatography for the analysis of traces of priority organic pollutants in environmental samples (air, water, sediment, biota.). This research was reflected in the publication of various scientific papers.

I have a strong experience in sample collection in different environmental compartments (air, atmospheric deposition, water, sediments and soils) for the analysis of priority pollutants. This experience has been acquired in the context of my participation in different research projects.

I have also participated in research projects of the National Plan, such as the ExpoCOV (exposure to volatile organic pollutants in people performing physical exercise), where I was in charge of the design and development of the sampling of volatile organic pollutants and coordination of the measurement of the effects of physical activity of human volunteers.

Accustomed to working with BPL and GMP regulations within Quality Management Systems ISO 9001 and ISO 17025.

Part C. RELEVANT MERITS

C.1. Publications (including books)

I. Fernández, E. Abad and J. M. Bayona; P. Gabarra, A. Cogollo and F. Recasens. "Supercritical fluid process for removal of polychlorodibenzodioxin and dibenzofuran from fly ash". *Environmental Progress*, 18, pp.40-49 (1999) Quotes/year: 0.45 Total: 9

I. Fernández, M. Gibert, A. Messeguer and J. M. Bayona. "Complete elimination of interferences in the organotin determination by oxidation with dimethyldioxirane combined with alumina clean-up". *Analytical Chemistry* 70, 3703-3707 (1998). Quotes/year: 1.33 Total: 28

P. Schubert, **I. Fernández**, Erwin Rosenberg and J. M. Bayona. "Evaluation of desulfuration procedures for the elimination of sulphur interferences in the organotin analysis of sediments". *Journal of Chromatography A*, 810, 245-251 (1998). Quotes/year: 1.0 Total: 21

I. Fernández and J. M. Bayona. "Supercritical fluid extraction of priority organotin contaminants from biological matrices". *Analytica Chimica Acta*, 335 269-276 (1997). Quotes/year: 0.59 Total: 13

J. Dachs, **I. Fernández**, and J. M. Bayona. "Combined experimental design and information theory for the optimization of supercritical fluid extraction of organic priority pollutants from sediments". *Analytica Chimica Acta*, 351 377-385 (1997). Quotes/year: 0.45 Total: 10

I. Fernández, J. Dachs and J. M. Bayona. "Application of experimental design approach to the optimization of Supercritical Fluid Extraction of PCBs and PAHs from sediments". *Journal of Chromatography*, 719, 76-86 (1996). Quotes/year: 1.11 Total: 25

I. Fernández, R. Alzaga and J. M. Bayona. "Desenvolupament de tècniques per a la determinació de contaminants orgànics en sòls i sediments". *Dossiers Agraris de la ICEA.*,

I. Fernández, B. van Drooge, D. Carrizo, P. Fernández and J. Grimalt. "Estudio de contaminantes orgánicos prioritarios en aire, agua, suelos y fresas del entorno de Huelva". 2007. *Consejería de Medio Ambiente de la Junta de Andalucía, España.*

C.2. Research projects and grants

Análisis de Aguas y Muestras sólidas del Embalse de Flix (INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA). 25/10/2016-24/03/2017.

1. Title: Integrated study on the exposure and effects of volatile organic compounds in people who perform vigorous physical exercise (EXPO-COV). CTM2012-39298.
Funding source; Ministerio de Economía y Competitividad.
Coordinador Joan O. Grimalt.
Period: 01/01/ 2013 - 31/12/2015.
Amount::130.000 €
2. Title: Mechanisms of toxicity and risk factors of atmospheric particulate material. Influence of size particles and their chemical composition (TEAPRATICLE). CGL2011-29621.
Funding source; Ministerio de Economía y Competitividad.
Main investigatos: Dr. B. van Drooge
Period: 01/01/ 2011- 1/12/2014
Amount::102.850 €
3. Title: Comprehensive study of the submicron organic matter in urban and rural aerosols and the effects of secondary transformations (AERTRANS). CTQ2009-14777-C02-01.
Funding source: Ministerio de Ciencia e Innovación
Coordinador Joan O. Grimalt.
Period: 01/01/ 2010- 31/12/2012
Amount::148.830 €
4. Title: European Mountain Lake Ecosystems: Regionalisation, diagnostics & socio-economic evaluation (EMERGE). EVK1-CT-1999-00032.
Funding source: European Community (Energy, Environment and sustainable development).
Coordinador: Simon Patrick, University College London (UK)
Period: 01/02/ 2000- 31/01/2003
Amount::150.000 €
5. Title: Sea Surface temperature evolution mapping proyect based on UK37 index stratigraphy. ENV4-CT97-0564.
Funding source: European community
Coordinador Coordinador Antoni Rosell, Durtran University.
Period: 1998-2000
Amount: 750.000 €
6. Title: Certified Reference Materials: Trimethyllead in rainwater urban dust, and butyl- and phenyltin compounds in mussel an sediments. MAT1-DT94-0071.
Funding source: European Community
Main Investigator: J. M. Bayona.
Period: 01/05/ 1995- 30/04/1999
Amount:

C.3. Contracts

Ría de Huelva Environmental Quality Diagnosis. Joan Grimalt Obrador.1999-2000.

C.4. Patents



C.5, C.6, C.7... (e. g., Institutional responsibilities, memberships of scientific societies...)