

**Part A. PERSONAL INFORMATION**

First name	Montserrat		
Family name	Meneses Benitez		
Gender (*)	Female	Birth date (dd/mm/yyyy)	16/01/1972
Social Security, Passport, ID number	43.435.455.R		
e-mail	Montse.meseses@uab.cat	URL web: win.uab.cat	
ORCID ID:	0000-0002-5846-2676		
Scopus ID:	8111347400		
Researcher ID:	B-9678-2009		

**4. Formació acadèmica****A.1. Current position**

Position	Associate Professor		
Initial date	12/04/2018		
Institution	Universitat Autònoma de Barcelona (UAB)		
Department/Center	Telecomunicació i Enginyeria de Sistemes	Escola Enginyeria	
Country	Spain	Teleph. number	93 586 8113
Key words	Environmental Engineering, Life Cycle Assessment, Environmental Impact		

**A.2. Previous positions (research activity interruptions, art. 45.2.c))**

Period	Position/Institution/Country/Interruption cause
24/07/2007 – 28/02/2009	PDI, Universitat Rovira i Virgili (URV)
01/06/2006 – 01/10/2008	Environmental technician, SIMPPLE S.L
07/03/2007 - 23/07/2007	Associate Professor, URV
01/10/2002 - 01/06/2006	Environmental technician, Centre d'Innovació Química, URV

**A.3. Education**

PhD, Licensed, Graduate	University/Country	Year
PhD Chemical Engineering	Universitat Rovira i Virgili (URV) / Spain	2002
Chemistry	Universitat Rovira i Virgili (URV) / Spain	1995

## **Part B. RELEVANT MERITS** (sorted by typology)

### **B.1. Publications** (more recent)

1. Authors: Condrachi, L., Vilanova, R., Meneses, M., Barbu, M.  
Title: Anaerobic digestion process control using a data-driven internal model control method  
Journal: *Energies*, 2021, 14(20), 6746
2. Authors: Sheik, A.G., Tejaswini, E., Seepana, M.M., Rao Ambati, S. Meneses, M., Vilanova, R.  
Title: Design of Feedback Control Strategies in a Plant-Wide Wastewater Treatment Plant for Simultaneous Evaluation of Economics, Energy Usage, and Removal of Nutrients  
Journal: *Energies* 2021, 14, 6386. <https://doi.org/10.3390/en14196386>
3. Author: Silvana Revollar, Montse Meneses, Ramón Vilanova, Pastora Vega and Mario Francisco,  
Title: Eco-Efficiency Assessment of Control Actions in Wastewater Treatment Plants  
Journal: *Water* 2021, 13, 612. <https://doi.org/10.3390/w130506>
4. Author: Silvana Revollar, Montse Meneses, Ramón Vilanova, Pastora Vega and Mario Francisco  
Title: Quantifying the Benefit of a Dynamic Performance Assessment of WWTP  
Journal: *Processes* 2020, 8, 206; doi:10.3390/pr8020206
5. Authors: S. Revollar, R. Vilanova, P. Vega, M. Francisco and M. Meneses  
Title: Wastewater Treatment Plant Operation: Simple Control Schemes with a Holistic Perspective  
Journal: *Sustainability* 2020, 12, 768; doi:10.3390/su12030768
6. Authors: Barbu, M, Vilanova, R., Meneses, M. Santín, I.,  
Title: On the evaluation of the global impact of control strategies applied to wastewater treatment plants  
Journal: *Journal of Cleaner Production*, 2017, 149; 396-405
7. Authors: Arrieta, O., Vilanova, R., Rojas, J.D., Meneses, M  
Title: Improved PID controller tuning rules for performance degradation/robustness increase trade-off  
Journal: *Electrical Engineering*, 2017, 98(3), 233-243
8. Authors: Rojas, JD, Arrieta, O, Vilanova, R., Meneses, M.  
Title: Data-driven control of the activated sludge process: IMC plus feedforward approach  
Journal: *International Journal of Computers, Communications and Control*, 2016, 11(49); 522-537.

9. Authors: Meneses, M., Torres, C., Castells, F.  
 Title: Variability analysis in a life cycle assessment of an aged red wine production from Catalonia, Spain  
 Journal: Science of the total environment, 2016, 562: 571-579;  
 doi:10.1016/j.scitotenv.2016.04.083, 201
10. Authors: M. Meneses, H. Concepción, R. Vilanova  
 Title: Joint Environmental and Economical Analysis of Wastewater Treatment Plants Control Strategies: A Benchmark Scenario Analysis  
 Journal: Sustainability 2016, 8(4) 360; doi:10.3390/su8040360
11. Authors: Santín, I., Pedret, C., Vilanova, R., Meneses, M.  
 Title: Advanced decisión control system for effluent violations removal in wastewater treatment plants  
 Journal: Control Engineering Practice 2016 DOI: 10.1016/j.conengprac.2016.01.005

## **B.2. Congress**

Summary with last 3 publications (Full publications list at: <http://win.uab.cat/winweb/publications.php>)

1. Revollar, S., Vega, P., Francisco, M., Meneses, M., Vilanova, R., Activated Sludge Process control strategy based on the dynamic analysis of environmental costs, 2020 24th International Conference on System Theory, Control and Computing, ICSTCC 2020 - Proceedings, 2020, pp. 576–581, 9259637

2. Barbu, M., Vilanova, R., Santin, I., Meneses, M. Decentralized control strategies evaluation for an Integrated Urban Wastewater System, 2017 18th International Carpathian Control Conference, ICC 2017, 2017, pp. 46–51,

## **B.3. Research projects**

- Title of the project: TRANSICION AMBIENTAL DE LA OPERACION BASADA EN MEJORA MEDIANTE TRANSFERENCIA DE APRENDIZAJE (TED2021-129134B-I00)

Funding entity: Ministerio de Ciencia e Investigación (Proyectos de Transición Ecológica y Digital 2021)

Duration: 2022-2023

Funding: 132.825 €

Principal Investigator: Jose Lopez Vicario and Ramon Vilanova Arbos

-Title of the project: Retos de Economía Circular para la operación y el control del Sistema Integrado de aguas (PID2019-105434RB-C33)

Funding entity: Ministerio de Ciencia e Investigación

Duration, from 01/06/2020 to 31/05/2024

Funding: 83.000€

Principal Investigator: Montse Meneses and Ramon Vilanova (UAB)

- Title of the project: CONTROL Y ESTRATEGIAS DE OPERACIÓN PARA MITIGACIÓN DE EMISIÓN DE GASES DE EFECTO OINVERNADERO: APLICACIÓN A PLANTAS DE TRATAMIENTO DE AGUAS RESIDUALES

Funding entity: MINISTERIO DE ECONOMÍA Y COMPETITIVIDAD

Duration, from jan. 2017 to DEC 2019 Funding: 40.000 Euros

Principal Investigator: Ramon Vilanova Arbós (UAB)

- Title of the project: DESARROLLO DE ESTRATEGIAS DE CONTROL AVANZADO PARA EDAR: CRITERIOS GLOBALES DE COSTE/CALIDAD PARA LA ELIMINACION DE NUTRIENTES Y MINIMIZACION DE IMPACTO MEDIOAMBIENTAL

Funding entity: MINISTERIO DE ECONOMÍA Y COMPETITIVIDAD

Duration, from jan. 2014 to DEC 2016 Funding: 40.000 Euros

Principal Investigator: Ramon Vilanova Arbós (UAB)

- Title of the project: SISTEMA INTEGRADO DE GESTION DE LA ENERGIA Y LOS RECURSOS AMBIENTALES PARA PROCESOS INDUSTRIALES ECONOMICAMENTE SOSTENIBLES (SIGERA)-2, DPI2012-37154-C02-02

Funding entity: MCIN - Ministerio de Ciencia e Innovación

Funding: 103.000€ Duration, from 2012 to 2015

Principal Investigator: GONZALO GUILLEN GOSALBEZ (URV)

- Title of the project: Análisis de las sinergias para el fortalecimiento de la investigación y transferencia de conocimientos en tecnología ambiental

Funding entity: AECID, Agencia Española de Cooperación Internacional para el Desarrollo

Duration, from 01.01.2012 to 31.03.2013 Funding: 15.000 Euros

Principal Investigator: Montse Meneses (UAB)

- Title of the project: DISEÑO DE SISTEMAS DE CONTROL BASADO EN ESPECIFICACION DE RENDIMIENTO Y CON CONSIDERACIONES DE ROBUSTEZ

Funding entity: MINISTERIO DE EDUCACIÓN Y CIENCIA

Duration, from NOV 2007 to NOV 2010 Funding: 55800 Euros

Principal Investigator: RAMON VILANOVA ARBÓS (UAB)

- Title of the project: Técnicas estocásticas y deterministas de evaluación del impacto ambiental basadas en simulación de procesos y análisis del ciclo de vida

Funding entity: MCIN - Ministerio de Ciencia e Innovación

Funding: 136.600,01 Duration, from 2010 to 2012

Principal Investigator: Laureano Jiménez Esteller (URV)

- Title of the project: Wolframio, un tipo con química (¡Alarma, se necesitan ingenieros!), FCT-09-471

Funding entity: MCIN - Ministerio de Ciencia e Innovación

Funding: 34.933,33 Duration, from 2009 to 2009

Principal Investigator: LAUREANO JIMENEZ ESTELLER (URV)

- Title of the project: Desarrollos tecnológicos hacia el Ciclo Urbano del Agua Autosostenible (SOSTAQUA)

Funding entity: MITC - Ministerio de Industria, Turismo y Comercio, CENI - Programa para la creación de Consorcios Estratégicos Nacionales de Investigación Técnica (CENIT)

Funding: 180.000,00 Duration, from 2007 to 2010

Principal Investigator: Francesc Castells Pique (URV)