



Mariano Martín Martín

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Mariano Martín Martín

Martin Martin Surname(s): Name: Mariano DNI: 07977093A Date of birth: 24/11/1980 Gender: Male

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Current professional situation

Employing entity: Universidad de Salamanca

Department: Ingeniería Química y Textil, Facultad de Ciencias Químicas Professional category: Profesor Ayudante doctor/Assistant Professor

Start date: 01/02/2011

Type of contract: Temporary **Dedication regime:** Full time Primary (UNESCO code): 330300 - Chemical technology and engineering

Performed tasks: Currently I am assistant professor at the University of Salamanca in Spain in the department of Chemical Engineering. I have already obtained the government approval as associate professor (acreditación de Titular de Universidad) . My research area lies in the field of process design and optimization using a hybrid approach from the experimental evaluation to reactors and other particular equipment to mathematical modeling and optimization of the entire flowsheet in particular in the field of biofuel production processes. From the teaching stand point, I am in charge of Industrial Chemistry in the bachelor degree and Process simulation and Integration at Master and PhD levels apart from teaching at transport phenomena and unit operations labs. En la actualidad ocupo la plaza de ayudante doctor en el departamento de Ingeniería Química y Textil de la Universidad de Salamanca, augnue estoy acreditado a profesor titular desde octubre de 2012. Mi investigación se centra en el campo del diseño y optimización de procesos y productos empleando una metodología híbrida, desde la experimentación para la evaluación de equipos como reactores al modelado y optimización de un proceso completo con particular interés en los biocombustibles. Desde el punto de vista de la docencia, soy profesor responsable de la asignatura de Química industrial del grado en Ingeniería Química y de la asignatura de Simulación e Integración de procesos del máster universitario en Ingeniería Química así como imparto laboratorios de fenómenos de transporte y operaciones unitarias.

Previous positions and activities

	Employing entity	Professional category	Start date
1	Carnegie Mellon Univerity	MICINN Fulbright Postdoc	01/05/2009
2	Procter & Gamble	Posdoctoral Engineer	01/02/2008
3	Universidad de Salamanca		01/02/2004







	Employing entity Professional category		Start date
		Predoctoral fellowship holder/ Becario predoctoral de invetigación	
4	PLASTICOS DUREX, S.A.	Summer Intern	01/07/2002

1 Employing entity: Carnegie Mellon Univerity Type of entity: University

Professional category: MICINN Fulbright Postdoc

Start-End date: 01/05/2009 - 31/01/2011 **Duration:** 1 year - 9 months

Performed tasks: My time was mainly devoted to the design of optimal biofuel production processes under the supervision of Prof. Ignacio Grossmann using mathematical programming techniques. Dediqué la mayor parte de mi estancia al desarrollo de procesos óptimos para la producción de biocombustibles supervisado por el Prof. Ignacio Grossmann empleando técnicas de programación matemática.

Applicability in teaching and/or research: I had the opportunity through the MICINN - Fulbright to act as teaching assistant for 80h in the process design class at senior year during two academic courses. Furthermore, we elaborated two CACHE design cases of study currently available at (http://cache.org/super-store/cache-process-design-case-studies) Gracias a los beneficions del contrato MICINN - Fulbright , participé en la docencia de la clase "Process design" durante dos cursos académicos y un total de 80h. Además participé en la elabroación de dos estudios de caso de CACHE que están disponibles en (http://cache.org/super-store/cache-process-design-case-studies)

2 Employing entity: Procter & Gamble

Professional category: Posdoctoral Engineer

Performed tasks: I was in charge of a research project dealing with the study of complex chemical reactors. I was awarded the P&G research award. Estaba a cargo de un proyecto que tenía como objetivo el estudio de reactores químicos complejos. Se me concedió en P&G researh award.

Applicability in teaching and/or research: The time at P&G was really useful in the management of time, people and resources and to learn the industrial way of thinking which is crucial for any engineer and to be capable of inspiring future engineers EI tiempo en P&G fue muy útil para optimizar la distribución del tiempo y recursos (materiales y humanos) así como aprender la forma en que la gran industria funciona lo cual es vital para los futuros ingenieros.

3 Employing entity: Universidad de Salamanca Type of entity: University

Professional category: Predoctoral fellowship holder/ Becario predoctoral de invetigación

Performed tasks: Graduate studies for the development of my PhD thesis Estudios conducentes a la

elaboración de mi tesis doctoral.

Applicability in teaching and/or research: I could take part of teaching activities as teaching assistant based on the FPU programm during two academic courses and 120 h. Participé en la docencia durante dos cursos académicos por un total de 120 h gracias a los beneficios complementarios del programa FPU

4 Employing entity: PLASTICOS DUREX, S.A.

Professional category: Summer Intern

Start date: 01/07/2002 Duration: 42 days







Education

University education

1st and 2nd cycle studies and pre-Bologna degrees

University degree: Higher degree

Name of qualification: Ingeniero Químico/ Chemical Engineer City degree awarding entity: Salamanca, Castile and León, Spain

Degree awarding entity: Universidad de Salamanca Type of entity: University

Date of qualification: 16/07/2003 Average mark: Outstanding

Prize: Accesit Premio Proyecto fin de carrera Mapfre

Doctorates

Doctorate programme: Reactividad Química y Tecnología del Medio ambiente **Degree awarding entity:** Universidad de Salamanca **Type of entity:** University

Date of degree: 18/02/2008

DEA awarding entity: Universidad de Salamanca

Date DEA was awarded: 31/08/2005

European doctorate: Yes Date of certificate: 18/02/2008

Thesis title: Estudio teórico experimental de la hidrodinámica y la transferencia de masa de burbujas

generadas en platos perforados Thesis director: Miguel A. Galán

Thesis co-director: Francisco J. Montes

Obtained qualification: Outstanding (Sobresaliente cum laude)

Special doctorate award: Yes Date of award: 2008

Other postgraduate university studies

Postgraduate qualification: Grado de salamanca

Degree awarding entity: Universidad de Salamanca Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

Date of qualification: 07/10/2004







Specialised, lifelong, technical, professional and refresher training (other than formal academic and healthcare studies)

Type of entity: Business

Type of entity: University

Duration in hours: 60 hours

Duration in hours: 60 hours

Duration in hours: 30 hours

1 Training title: An introduction to gProms

Awarding entity: Process Systems Enterprise

End date: 21/08/2009

2 Training title: Curso de Francés General Nivel 3

Awarding entity: Servicio central de idiomas,

Universidad de Salamanca,

End date: 31/01/2008

3 Training title: Curso de Alemán General Nivel 4

Awarding entity: Servicio central de idiomas.

Universidad de Salamanca **End date:** 08/06/2007

4 Training title: Certificate in Advance English

Awarding entity: Cambridge

End date: 08/05/2007

Training title: Curso de Alemán General Nivel 3

Awarding entity: Servicio central de idiomas.

Universidad de Salamanca

End date: 31/01/2007

6 Training title: Curso de Alemán General Nivel 2

Awarding entity: Servicio central de idiomas

Universidad de Salamanca

End date: 08/06/2006

7 Training title: Curso de Alemán General Nivel 1

Awarding entity: Servicio central de idiomas,

Universidad de Salamanca

End date: 31/01/2006

8 Training title: First Certificate English

Awarding entity: Cambridge

End date: 12/2005

9 Training title: Curso de Francés General Nivel 1

Awarding entity: Servicio central de idiomas,

Universidad de Salamanca

End date: 09/06/2005 Duration in hours: 60 hours

10 Training title: Grado Elemental Musica

Awarding entity: Conservatorio profesional Musica de Salamanca

End date: 30/06/1995







Attended advanced, improvement and innovative teacher training and new technology courses and seminars focused on improving teaching

1 Title of course/seminar: PASI 2011

Goals of the course/seminar: Target the new advances in process optimization for senior PhD students and young faculty members (Avances en optimización de procesos para estudiantes de doctorado, postdocs y jóvenes

profesores)

Organising entity: NSF - Carnegie Mellon University - Type of entity: University

Wisconsin Madison

Start-End date: 19/07/2011 - 29/07/2011

2 Title of course/seminar: Curso de aptitud Pedagógica

Goals of the course/seminar: Basic compulsory training for high school teachers/ Curso obligatorio para la

docencia en secundaria

Organising entity: Universidad de Salamanca Type of entity: University

Faculty, institute or centre: Facultad de Educación

Duration in hours: 200 hours

Start-End date: 01/10/2004 - 22/12/2004

3 Title of course/seminar: VII Congreso Nacional de Ingeniería Química

Goals of the course/seminar: Evaluate the status of the chemical engineering degree and research in Spain/

Presentación del estado de la ingeniería química y la investigación en ingeniería química en España

Organising entity: INQUISA

Type of entity: Associations and Groups

Duration in hours: 30 hours

Start-End date: 14/10/2004 - 17/10/2004

4 Title of course/seminar: New trends in chemical engineering

Goals of the course/seminar: Present the new advances in chemical engineering/ Nuevos avances en ingeniería

química

Organising entity: Universidad de Salamanca Type of entity: University

Duration in hours: 30 hours

Start-End date: 21/02/2004 - 25/02/2004

5 Title of course/seminar: Reactores Multifásicos

Goals of the course/seminar: Present the new trends in chemical reactor design for the case of multiphase

reactors/ Tenencias en el diseño de reactores multifásicos

Organising entity: CURSOS DE VERANO DE LA UNIVERSIDAD DE SALAMANCA

Duration in hours: 30 hours

Start-End date: 15/07/2002 - 19/07/2002

Language skills

Language	Speaking	Reading	Writing
French	Intermediate	Elementary	Elementary
German	Intermediate	Intermediate	Intermediate
Spanish	Advanced	Advanced	Advanced
English	Advanced	Advanced	Advanced







Teaching experience

General teaching experience

1 Type of teaching: International teaching
Name of the course: Process Optimization

Type of programme: Engineering Type of subject: Obligatory

University degree: Batchelor Chemical Engieering

Start date: 16/02/2015 **End date:** 30/03/2015

End date: 30/03/2015 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 10

Entity: University of Birmingham Type of entity: University

Faculty, institute or centre: School of Chemical Engineering

City of entity: United Kingdom

2 Type of teaching: Official teaching

Name of the course: Exp. Ing Química III

Type of subject: Core

University degree: Grado en Ingeniería Química

Frequency of the activity: 1

Start date: 15/09/2013 **End date:** 01/02/2015

End date: 01/02/2015 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 75

Entity: Universidad de Salamanca Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

3 Name of the course: Química Industrial

University degree: Grado en Ingeniería Quimica

Start date: 15/09/2013 **End date:** 01/02/2015

End date: 01/02/2015

Entity: Universidad de Salamanca Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

4 Type of teaching: Official teaching

Name of the course: Simulación e Integración de procesos

Type of programme: Master's degree Type of teaching: In person theory

University degree: Master universitario en Ingeniería Química

Frequency of the activity: 3

Start date: 01/10/2012 **End date:** 20/01/2015

End date: 20/01/2015 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 30

Entity: Universidad de Salamanca Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

Subject language: Spanish





Type of teaching: Practical work (classroom-problems)



5 Type of teaching: Official teaching
Name of the course: Química Industrial

Type of programme: Bachelor's degree

University degree: Grado en Químicas

Course given: 2013-2014 Frequency of the activity: 1
Start date: 01/02/2014 End date: 01/06/2014

End date: 04/2014 Type of hours/ ECTS credits: Credits

Hours/ECTS credits: 10

Entity: Universidad de Salamanca Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

Type of teaching: International teaching **Name of the course:** Process Optimization

Type of programme: Engineering Type of subject: Obligatory

University degree: Batchelor Chemical Engieering

Start date: 12/03/2014 **End date:** 11/04/2014

End date: 30/03/2014 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 10

Entity: University of Leeds Type of entity: University

Faculty, institute or centre: SPEME City of entity: United Kingdom

7 Type of teaching: International teaching Name of the course: Special Seminars

Type of programme: Doctorate

University degree: PhD Chemical Engineering

Start date: 12/03/2014 **End date:** 11/04/2014

End date: 2014

Entity: University of Leeds Type of entity: University

Faculty, institute or centre: School of Process

8 Type of teaching: Official teaching

Name of the course: Productos y Procesos Biotecnológicos

Type of programme: Bachelor's degree **Type of teaching:** Laboratory work

Type of subject: Core

University degree: Grado en Biotecnología

Frequency of the activity: 2

Start date: 01/10/2012 **End date:** 31/12/2013

End date: 31/12/2013 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 17

Entity: Universidad de Salamanca

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

9 Name of the course: Experimentación Ingeniería Quimica II

Type of programme: Bachelor's degree Type of teaching: Laboratory work

Type of subject: Core

University degree: Grado en Ingeniería Química

Frequency of the activity: 1

Start date: 11/02/2013 **End date:** 30/06/2013

End date: 30/06/2013 Type of hours/ ECTS credits: Credits







Hours/ECTS credits: 40

Entity: Universidad de Salamanca Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

City of entity: Salamanca, Castile and León, Spain

10 Type of teaching: Official teaching

Name of the course: Química Industrial

Type of programme: Engineering Type of teaching: In person theory

Type of subject: Core

University degree: Ingeniero Químico

Frequency of the activity: 3

Start date: 01/02/2011 **End date:** 30/06/2013

End date: 30/06/2013 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 60

Entity: Universidad de Salamanca

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

Subject language: Spanish

11 Type of teaching: Official teaching

Name of the course: Process design

Type of programme: Doctorate Type of teaching: In person theory

Type of subject: Doctorate

University degree: PhD Chemical Engineering

Frequency of the activity: 2

Start date: 07/01/2012 **End date:** 30/06/2012

End date: 30/06/2013 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 7,5

Entity: Universidad de Maribor Type of entity: University

Faculty, institute or centre: Chemistry

Subject language: English

12 Type of teaching: Official teaching

Name of the course: Experimentación en Ingeniería Químca III

Type of programme: Engineering **Type of teaching:** Laboratory work

Type of subject: Core

University degree: Ingeniero Químico

Frequency of the activity: 3

Start date: 01/02/2005 **End date:** 30/06/2012

End date: 30/06/2012 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 60

Entity: Universidad de Salamanca

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

Department: Chemical Engineering

Subject language: Spanish

13 Type of teaching: Official teaching

Name of the course: Experimentación en Ingeniería Química II

Type of programme: Engineering Type of teaching: Laboratory work

Type of subject: Core

University degree: Ingeniero Químico

Frequency of the activity: 4







Start date: 01/02/2005 **End date:** 30/06/2012

End date: 30/06/2012 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 60

Entity: Universidad de Salamanca Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

Subject language: Spanish

14 Type of teaching: Official teaching

Name of the course: Chemical Process Systems Design

Type of programme: Bachelor's degree

Type of subject: Core

University degree: Bachelor in chemical Engineering

Frequency of the activity: 2

Start date: 23/08/2009 End date: 20/12/2011

End date: 20/12/2011 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 40

Entity: Carnegie Mellon University

Type of entity: University

Faculty, institute or centre: Carnegie Institute of technology

Subject language: English

15 Type of teaching: Official teaching

Name of the course: Fenómenos de Transporte

Type of programme: Engineering Type of teaching: In person theory

Type of subject: Core

University degree: Ingeniero Químico

Frequency of the activity: 1

Start date: 01/02/2006 **End date:** 30/06/2006

End date: 30/06/2006 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 30

Entity: Universidad de Salamanca Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas

Subject language: Spanish

16 Type of teaching: Official teaching

Name of the course: Productos y Procesos Biotechnológicos

Type of programme: Bachelor's degree **Type of teaching:** Laboratory work

University degree: Licenciado en Biotecnología

Frequency of the activity: 1 Start date: 11/02/2013

End date: 30/06/2013 Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 17

Entity: Universidad de Salamanca Type of entity: University

Faculty, institute or centre: Facultad de Ciencias Químicas







Experience supervising doctoral thesis and/or final year projects

1 Project title: Planta de obtención de metanol a partir de dióxido de carbono capturado e hidrógeno renovable

Type of project: End of course project

Entity: Universidad de Salamanca

Type of entity: University

Student: Beatriz Martín Ríos

Obtained qualification: 8.5 Notable (A)

Date of reading: 05/06/2015

2 Project title: Planta incineradora de residuos urbanos con aprovechamiento energético

Type of project: End of course project

Entity: Universidad de Salamanca Type of entity: University

Student: Leticia Pérez Baos

Obtained qualification: 8.5 Notable (A)

Date of reading: 03/06/2015

3 Project title: Planta de producción de metanol a partir de glicerina en un proceso integrado de biodiesel

Entity: Universidad de Salamanca Type of entity: University

Student: Tamara González Montero

Obtained qualification: 8 Notable (B+)

Date of reading: 29/05/2015

4 Project title: PLANTA DE OBTENCIÓN DE BIODIESEL: OPTIMIZACIÓN ECONÓMICA DEL PROCESO DE

PURIFICACIÓN DE GLICERINA MEDIANTE INTERCAMBIO IÓNICO

Type of project: Minor thesis

Co-director of thesis: Jorge Cuéllar Antequera

Entity: Universidad de Salamanca

Type of entity: University

Student: Rocía Huerga Morán

Obtained qualification: 9.5 (Sobresaliente (A))

Date of reading: 12/05/2015

5 Project title: Diseño de una planta termoeléctrica de ciclo combinado alimentado con biogás obtenido a partir de

deyecciones ganaderas

Type of project: End of course project

Entity: Universidad de Salamanca Type of entity: University

Student: Erick Alexander León Hennenberg
Obtained qualification: 9.5 Sobresaliente (A)

Date of reading: 11/02/2015

6 Project title: Integración energética de los subproductos en una planta de fundición de grasas

Type of project: End of course project

Co-director of thesis: Mariano Martín Martín

Entity: Universidad de Salamanca Type of entity: University

Student: Laura Vivas Frutos

Obtained qualification: 8.0 Notable (B+)

Date of reading: 09/02/2015







7 Project title: Planta de Producción de 2,5 Dimetilfurano a partir de fructosa

Type of project: End of course project

Co-director of thesis: Mariano Martín Martín

Entity: Universidad de Salamanca

Type of entity: University

Student: Blanca López Sánchez

Obtained qualification: 8.5 Notable (B+)

Date of reading: 09/02/2015

8 Project title: Planta de producción de Epiclorhidrina a partir de Glicerol.

Type of project: End of course project

Co-director of thesis: Mariano Martín Martín

Entity: Universidad de Salamanca

Type of entity: University

Student: Alberto Almena Ruíz

Obtained qualification: 9.0 Sobresaliente (A)

Date of reading: 04/02/2015

9 Project title: Planta de producción de biobutanol con recuperación de solventes mediante pervaporación

Type of project: End of course project

Co-director of thesis: Mariano Martín Martín

Entity: Universidad de Salamanca

Type of entity: University

Student: Santiago Malmierca

Obtained qualification: 5.0 Aprobado (C)

Date of reading: 09/10/2014

10 Project title: Proceso integrado para la producción de vainillina a partir de lignina

Type of project: End of course project **Co-director of thesis:** Mariano Martín Martín

Entity: Universidad de Salamanca

Type of entity: University

Student: Tomás Ordad

Obtained qualification: 8.5 (Notable) (B+)

Date of reading: 08/10/2014

11 Project title: Planta termosolar con enfriamiento seco

Type of project: End of course project

Co-director of thesis: Mariano Martín Martín

Entity: Universidad de Salamanca Type of entity: University

Student: Sandra Velayos Velayos

Obtained qualification: 8.0 Notable (B+)

Date of reading: 07/10/2014

12 Project title: Planta de producción de ceras por gasificación de residuos forestales y materiales lignocellulósicos

Type of project: End of course project **Co-director of thesis:** Mariano Martín Martín

Entity: Universidad de Salamanca

Type of entity: University

Student: Patricia Muñoz Gago

Obtained qualification: 8.5 (Notable) (B+)

Date of reading: 10/06/2014

13 Project title: Obtención de metanol a partir de dióxido de carbono mediante energía solar.

Type of project: End of course project

Co-director of thesis: Mariano Martín Martín







Entity: Universidad de Salamanca

Type of entity: University

Student: Alberto Calvo Vera

Obtained qualification: 6.0 Aprobado (C)

Date of reading: 09/06/2014

14 Project title: Planta de producción de 1-3 Dihidroxiacetona a partir de glicerina

Type of project: End of course project

Entity: Universidad de Salamanca Type of entity: University

Student: Sandra Mateos Rodríguez **Obtained qualification:** 7.0 Notable (B)

Date of reading: 07/02/2014

15 Project title: Obtención de fibra de carbono a través de lignina

Type of project: End of course project

Entity: Universidad de Salamanca

Type of entity: University

Student: Carlos Mateos Tapia

Obtained qualification: Sobresaliente 9.0 (A)

Date of reading: 17/10/2013

16 Project title: Planta de producción de disolventes

Type of project: End of course project

Entity: Universidad de Salamanca

Type of entity: University

Student: Miguel Díez Sabín

Obtained qualification: Notable 8.0 (B+)

Date of reading: 17/10/2013

17 Project title: Producción de ácido láctico a partir de materia lignocelulósica.

Type of project: End of course project

Entity: Universidad de Salamanca Type of entity: University

Student: Martía Cristina Escudero Almaraz **Obtained qualification:** 6.0 Aprobado (C)

Date of reading: 14/10/2013

18 Project title: Producción de gas natural sintético a partir de efluentes industriales empleando energía renovable

Type of project: End of course project

Entity: Universidad de Salamanca

Type of entity: University

Student: William Davis Fernández

Obtained qualification: Sobresaliente 9.5 (A)

Date of reading: 03/10/2013

19 Project title: Planta de producción de biopolímeros a partir de glicerol.

Type of project: End of course project

Entity: Universidad de Salamanca Type of entity: University

Student: Laura Bueno Romo

Obtained qualification: 7.0 Notable (B)

Date of reading: 14/06/2013

20 Project title: Planta desaladora de agua de mar mediante energías renovables

Type of project: End of course project

Entity: Universidad de Salamanca Type of entity: University

Student: Sandra Romero Díez







Obtained qualification: 8.0 Notable (B+)

Date of reading: 13/06/2013

21 Project title: Planta de producción de silicio para módulos fotovoltaicos

Type of project: End of course project

Entity: Universidad de Salamanca

Type of entity: University

Student: Marta Vidal Otero

Obtained qualification: 8.5 Notable (B+)

Date of reading: 04/06/2013

22 Project title: Planta de producción de DME.

Type of project: End of course project

Entity: Universidad de Salamanca

Type of entity: University

Student: Estela Peral Elena

Obtained qualification: 8.0 Notable (B)

Date of reading: 03/06/2013

23 Project title: Diseño de una central térmica con captura de CO2.

Type of project: End of course project

Entity: Universidad de Salamanca Type of entity: University

Student: Mónica Martín Rodríguez

Obtained qualification: 9.0 Sobresaliente (A)

Date of reading: 29/05/2013

24 Project title: Planta de producción de energía por Concentración de energía Solar.

Type of project: End of course project

Entity: Universidad de Salamanca

Type of entity: University

Student: Lidia Martín Delgado

Obtained qualification: 7.5 Notable (B)

Date of reading: 02/2013

25 Project title: Producción y uso de hidrógeno a partir de energía solar

Type of project: End of course project

Entity: Universidad de Salamanca

Type of entity: University

Student: Laura Sáez García

Obtained qualification: Sobresaliente 9.0 out of 10 (A)

Date of reading: 25/10/2012

26 Project title: Planta de producción de leche en polvo

Type of project: End of course project

Entity: Universidad de Salamanca Type of entity: University

Student: Beatriz Muñoz González

Obtained qualification: Notable 7.0 out of 10 (B)

Date of reading: 08/06/2012

27 Project title: Obtención de hidrógeno a partir de materiales lignocelulósicos

Type of project: End of course project

Entity: Universidad de Salamanca Type of entity: University

Student: Héctor Riesco Malho

Obtained qualification: Notable 8.0 out of 10 (B)

Date of reading: 07/06/2012







28 Project title: Obtención híbrida de combustibles a partir de biomasa y fuentes no renovables

Type of project: End of course project

Entity: Universidad de Salamanca Type of entity: University

Student: Daniel Sánchez Garbajosa

Obtained qualification: Sobresaliente 9.0 out of 10 (A)

Date of reading: 01/06/2012

29 Project title: Optimization of biodiesel production process using bioethanol

Type of project: Honours degree senior project **Co-director of thesis:** Ignacio Grossmann

Entity: Carnegie Mellon University

Student: Kristen Severson **Date of reading:** 05/05/2011

Student tutorials

1 Name of the programme: Doctorate

Entity: Universidad de Salamanca Type of entity: University

Number of tutored students: 1

2 Name of the programme: Mobility programme

Entity: Universidad de Salamanca

Type of entity: University

City of entity: Salamanca, Spain Number of tutored students: 50

3 Name of the programme: Starting R&D

Entity: Universidad de Salamanca Type of entity: University

City of entity: Salamanca, Spain Number of tutored students: 1

Educational or pedagogical publications, books, articles, etc.

Mariano Martín Martín. Introduction to Software for Chemical Engineers. *Taylor and Francis*. (United States of America): 2014. Available online at: http://www.crcpress.com/product/isbn/9781466599369>. ISBN 978-1-4665-9936-9

Name of the materials: Introduction to Software for Chemical Engineers

Target group profile: Undergraduates in Chemical Engineering

Date of drafting: 2014

Format: Book

Degree of contribution: Editor or co-editor

Justification of material: Editor and autor of 8 out of 14 chapters C1 Modeling, Simulation, and Optimization in the Chemical Engineering Curriculum Mariano Martín Martín and Ignacio E. Grossmann C2 Modeling, Simulation, and Optimization in the Process and Commodities Industries Iiro Harjunkoski and Mariano Martín Martín C3 Excel for Chemical Engineering Mariano Martín Martín and Luis Martín de Juan C4 MATLAB® for Chemical Engineering Mariano Martín Martín and Luis Martín de Juan C5 PTC® Mathcad for Chemical Engineering Kristen A. Severson, Alberto Martínez Bécares, and Mariano Martín Martín C8 Modular Process Simulators Rubén Ruiz-Femenía, José A. Caballero Suárez, and Mariano Martín Martín C9 Introduction to gPROMS for Chemical Engineering Carlos Amador Zamarreño, Mariano Martín Martín, and Laura Bueno Romo C11 Use of GAMS for Optimal Process Synthesis and Operation Mariano Martín Martín







Cheng Cheng; Xian Bin Chua; Benjamin Hauser; Neha Nandakumar; Edward Smongeski; Graham Spicer; Francisco Trespalacios; Pablo García Herreros; Mariano Martín Martín; Ignacio E. Grossmann; Jeffrey Siirola. Conceptual Design of an Aromatics Plant from Shale Gas. pp. 1 - 622. CACHE, 2013. Available online at: http://cache.org/super-store/cache-process-design-case-studies#cache-process-design-case-11.

Name of the materials: CACHE case studies

Target group profile: Profesores y alumnos grado en Ingeniería Química

Date of drafting: 2013

Format: Manual

Degree of contribution: Author or co-author of entire book

Matthew Walters; Aislinn McCloskey; Nikunja Kolluri; Rachel Bradley; Kristen Severson; Laura Mckee; Josh Mathews; Courtney Baker; Mariano Martin Martin; Ignacio Grossmann Eper. Conceptual Design of the Supply Chain and Production Facility of Lignocellulosic Bioethanol via Hydrolysis Preliminary design and Economic Analysis. 10, pp. 1 - 542. CACHE, 2011. Available online at: http://cache.org/super-store/cache-process-design-case-studies#cache-process-design-case-10.

Name of the materials: CACHE Design Case Study/ Vol 10

Target group profile: Profesores y alumnos grado en Ingeniería Química

Date of drafting: 30/05/2011

Format: Manual

Tadeusz Kuparski; TingHsuan Chang; Ke Lun Chua; Ruien Hu; Tony LoPresti; Austin Good; Bryan Friedman; Christopher Edwards; Mariano Martin Martin; Ignacio Grossmann Epper. Conceptual Design of Second Generation Bioethanol Production via Gasification of LignocellulosicBiomass. 9, pp. 1 - 301. CACHE, 2010. Available online at: http://cache.org/super-store/cache-process-design-case-studies#cache-process-design-case-9.

Name of the materials: CACHE Process Design Case Studies

Target group profile: Profesores y alumnos del grado de Ingeniero Químico

Date of drafting: 30/05/2010

Format: Manual

Mariano Martin Martin; Jorge Cuellar Antequera; Maria Luisa García Hourcade; Víctor Gutierrez Pérez; Raquel Olivera; Raúl Rodrigo; Ivan José Vicente. Cuadernos de Reactores: 1.-REACTORES QUÍMICOS. pp. 1 - 241. 2002.

Name of the materials: Cuadernos de Reactores

Date of drafting: 07/10/2002

Format: Manual

Mariano Martin Martin; Jorge Cuellar Antequera. Cuadernos de Reactores: 2.-REACTORES ELECTROQUÍMICOS. pp. 1 - 243. 2002.

Name of the materials: Cuadernos de Reactores

Date of drafting: 07/10/2002

Format: Manual

7 Mariano Martin; Aitor Hornes; Luis Miguel Martin; Ruben Sancho; Maria del Carmen Marquez. Web page. 2002. Name of the materials: Hidrodesalquilación térmica del tolueno (C7H8) para obtención de benceno (C6H6)

Date of drafting: 30/09/2002

Format: Web







Participation in innovative teaching projects

1 Project title: Desarrollo e implementación de actividades para captación de estudiantes y promoción del grado en

ingeniería química

Type of participation: Collaborator

Time of working relationship: For a limited time

Funding entity: Universidad de Salamanca Type of entity: University

Start-End date: 2013 - 2015

2 Project title: Elaboración de material didáctico para el aprendizaje de la Ingeniería química

Type of participation: Collaborator

Time of working relationship: For a limited time

Funding entity: Junta de Castilla y León **Type of entity:** Gobierno **Start-End date:** 01/10/2000 - 30/09/2002 **Duration:** 2 years

Participation in conferences with talks focused on teacher training

1 Name of the event: Symposium Teaching Process Simulation

Type of event: Conference City of event: MADRID, Bahrain Date of presentation: 05/10/2015

Organising entity: chemcad Type of entity: Business Start date: 05/10/2015 End date: 05/10/2015

Number of hours: 10 hours

Simulación de procesos con CHEMCAD: Desde los inicios en el aula a la simulación de biorefinerías integradas.

2 Name of the event: PASI

Type of event: Workshop

City of event: Rio de Janeiro, Brazil

Organising entity: CMU, NSF, Wisconsin Madison

Start date: 19/07/2011 **End date:** 29/07/2011

Number of hours: 80 hours

3 Name of the event: VII Congreso Nacional de Ingeniería Química

Type of event: Conference City of event: Salamanca, Spain

Organising entity: Universidad de Salamanca

Type of entity: University

Start date: 14/10/2004

End date: 17/10/2004

Number of hours: 30 hours

4 Name of the event: Reactores multifásicos

Type of event: Workshop

Type of participation: Attendant/Asistente

Target group profile: PhD Students, Young faculty / Estudiantes de doctorado y jóvenes doctores

City of event: Salamanca, Spain

Organising entity: Universidad de Salamanca

Type of entity: University

Start date: 15/07/2002

End date: 19/07/2002

Number of hours: 30 hours







Other activities/achievements not included above

1 Description of the activity: Tribunal Grado de Salamanca

Organising entity: Universidad de Salamanca Type of entity: University

End date: 2011

2 Description of the activity: Tribunal de proyectos fin de carrera

Organising entity: Universidad de Salamanca Type of entity: University

3 Description of the activity: Tribunal trabajo fin de máster

Organising entity: Universidad de Salamanca Type of entity: University

Most relevant contributions of your teaching CV

1 Description: Final Lecture Chemical Engineers

Organising entity: Undergraduates Prom

End date: 16/05/2015

2 Description: Final lecture Chemical Engineers

City of activity: Salamanca,

Organising entity: Undergraduates Prom. Facultad de Ciencias Químicas

End date: 04/05/2013

3 Description: Top three professor in chemical engineering

Organising entity: Class of 2012 & 2014 Chemical Engineering Univ. Salamanca

End date: 05/05/2012

4 Description: Highly positive evaluation

Organising entity: Carnegie Mellon University

End date: 18/10/2010

Healthcare experience

Other activities/achievements not included above

Other relevant activities: Quality coordinator Master in Chemical Engineering

Entity where project took place: Universidad de

Type of entity: University

Salamanca

End date: 30/09/2014 **Start date:** 05/07/2011

Other relevant activities: Head of the Master Studies in Chemical Engineering
Entity where project took place: University of Type of entity: University

Salamanca

Start date: 01/10/2014





Type of entity: University



3 Other relevant activities: Mobility coordinator (Coordiandor de movilidad)

Entity where project took place: Universidad de Type of entity: University

Salamanca

Start date: 23/01/2012

Scientific and technological experience

Research and development groups/teams

Name of the group: Grupo de excelencia

Aims of the group: Transport phenomena studies

Type of collaboration: Co-authorship of projects and their development

Affiliation entity: Universidad de Salamanca

Type of entity: University

Start date: 01/02/2011

Duration: 10 months

Scientific or technological activities

R&D projects funded through competitive calls of public or private entities.

1 Name of the project: Multiobjective Optimization Strategies for the Design of Sustainable Biofuel Processes

Entity where project took place: Carnegie Mellon University Name principal investigator (PI, Co-PI....): Ignacio Grossmann

Start-End date: 2010 - 2014 Total amount: 343.285

Name of the project: Development of a technology to produce microcapsules, based on the formation of drops from viscous non-Newtonian liquids sprayed through fan-jet nozzles, to use in cancer treatment

Entity where project took place: Universidad de Type of entity: University

Salamanca

City of entity: Salamanca, Spain

Name principal investigator (PI, Co-PI....): Eva M Martín del Valle

Nº of researchers: 9 Start-End date: 2011 - 2013 Total amount: 1.500.000

3 Name of the project: Purificación de proteínas mediante interacciones bioespecificas en películas ultrafinas

tipo langmuir-blodgett

Entity where project took place: Universidad de Type of entity: University

Salamanca

City of entity: Salamanca, Castile and León, Spain

No of researchers: 3

Start-End date: 01/01/2012 - 31/12/2012

Total amount: 14.400

4 Name of the project: Optimization of biofuel production processes

Entity where project took place: Carnegie Mellon Type of entity: University

University







City of entity: Pittsburgh, United States of America

Name principal investigator (PI, Co-PI....): Mariano Martin

Nº of researchers: 2

Start-End date: 01/05/2009 - 31/01/2011

Name of the project: Technical understanding of highly complicated and complex three phase reactor

systems

Entity where project took place: Procter and Gamble

City of entity: Newcastle Upon Tyne, Northumberland and Tyne and Wear, United Kingdom

No of researchers: 4

Start-End date: 01/02/2008 - 28/02/2008

6 Name of the project: Procesos de transporte gas-líquido: efecto de la viscosidad y de la coalescencia en el

escalado de equipos

Entity where project took place: Universidad de Type of entity: University

Salamanca

City of entity: Salamanca, Castile and León, Spain

Nº of researchers: 5

Start-End date: 01/01/2006 - 31/01/2008

7 Name of the project: Caracterización y mejora de los procesos de transporte en sistemas de contacto

gas-líquido

Entity where project took place: Universidad de Type of entity: University

Salamanca

City of entity: Salamanca, Castile and León, Spain

Nº of researchers: 5

Start-End date: 01/10/2003 - 31/12/2005

8 Name of the project: Desarrollo de un sistema inteligente de liberación dual (termoterapia y quimioterapia)

para aplicación en tumores cancerosos via in situ

Entity where project took place: Universidad de Type of entity: University

Salamanca

City of entity: Salamanca, Castile and León, Spain

Nº of researchers: 6 Start date: 01/01/2013 Total amount: 107.000

R&D non-competitive contracts, agreements or projects with public or private entities

Name of the project: Technical understanding of highly complicated and complex three phase reactor systems

Degree of contribution: Coordinator of total project, network or consortium

Name principal investigator (PI, Co-PI....): Mariano Martín

Nº of researchers: 5

Start date: 01/02/2008 Duration: 1 year - 1 month







Results

Industrial and intellectual property

Title registered industrial property: Basic model for the washing process

Inventors/authors/obtainers: Mariano Martín Martín; Zayeed Alam; Elizabeth Alam; David York

Entity holder of rights: Procter and Gamble **Country of inscription:** United Kingdom

Scientific and technological activities

Scientific production

H index: 16

Publications, scientific and technical documents

William Davis Fernández; Mariano Martín Martín. Optimal year-round operation for methane production from CO2 and Water using wind energy. Energy. 69, pp. 497 - 505. Elsevier, 2014. ISSN 0360-5442

Type of production: Article Format: Journal

Impact source: SCOPUS Category: Science Edition - THERMODYNAMICS

Impact index in year of publication: 3.487

Position of publication: 4

Journal in the top 25%: Yes

No. of journals in the cat.: 52

Relevant publication: Yes

2 Mariano Martín Martín; Ignacio E. Grossmann. Optimal engineered algae composition for the integrated simultaneous production of bioethanol and biodiesel. AIChE J.59 - 8, pp. 2872 - 2883. AIChE, 2013. ISSN 0001-1541

Type of production: Article Format: Journal

Position of signature: 1 Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

Impact source: SCOPUS Category: Chemical Engineering (miscellaneous)

Impact index in year of publication: 2.49

Position of publication: 24

Journal in the top 25%: Yes

No. of journals in the cat.: 187

Citations: 16

Relevant results: Nominado al premio ENI 2014.

Relevant publication: Yes

Mariano Martin Martin; Francisco J. Montes Sanchez; Miguel A. Galan Serrano. Bubbling process in stirred tank reactors II: Agitator effect on the mass transfer rates. Chemical Engineering Science. 63, pp. 3223 - 3234.

Elsevier, 2008. ISSN 0009-2509

Type of production: Article Format: Journal

Position of signature: 1





Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Chemical Engineering (miscellaneous)

Journal in the top 25%: Yes No. of journals in the cat.: 187

Citations: 24



Impact source: SCOPUS

Impact index in year of publication: 1.88

Position of publication: 7

Source of citations: SCOPUS

Relevant publication: Yes

4 Ramkumar Karuppiah; Andreas Peschel; Ignacio Grossmann; Mariano Martín Martín; Wade Martinson; Luca Zullo. Energy Optimization for the Design of corn-based ethanol plants. AIChE Journal. 56 - 6, pp. 1499 - 1525. Wiley

InterScience, 2008. ISSN 0001-1541

Type of production: Article Format: Journal

Position of signature: 4 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS Category: Chemical Engineering (miscellaneous)

Impact index in year of publication: 1.88

Position of publication: 8

Journal in the top 25%: Yes

No. of journals in the cat.: 187

Source of citations: SCOPUS Citations: 83

Relevant publication: Yes

Mariano Martín Martín; Francisco J. Montes Sánchez; Miguel A. Galán Serrano. Bubble coalescence at sieve plates: II. Effect of coalescence on mass transfer. Superficial Area versus bubble oscillations. Chemical

Engineering Science. 62, pp. 1741 - 1752. Elsevier, 2007. ISSN 0009-2509 **Type of production:** Article **Format:** Journal

Position of signature: 1 Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

journal with external aumissions assessment committee

Impact source: SCOPUS Category: Chemical Engineering (miscellaneous)

Impact index in year of publication: 1.78

Position of publication: 9

Journal in the top 25%: Yes

No. of journals in the cat.: 187

Source of citations: SCOPUS Citations: 24

Relevant publication: Yes

Mariano Martín Martín; William Davis Fernández. Optimal integration of the year-round operation for methane production from CO2 and water using wind, solar and biomass. Comp. Aid. Chem. Eng., 35, pp. 2261 - 2266.

Elsevier, 2015. ISBN 978-0-444-63429-0

Type of production: Chapters of books Format: Book

Position of signature: 1 Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

7 Mariano Martín Martín; Ignacio Grossmann. Optimal production of furfural and DMF from algae and switchgrass.

Comp. Aid. Chem. Eng.35, pp. 1043 - 1049. 2015. ISBN 978-0-444-63429-0

Type of production: Chapters of books Format: Book

Position of signature: 1 Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

8 Linlin Yang; Mariano Martín Martín; Ignacio Grossmann. Optimization Models for Process Water Networks and their Application to Biofuel Processes. Sustainability of Products, Processes and Supply Chains: Theory and

Applications. pp. 3 - 32. 2015. ISBN 9780444634917

Type of production: Chapters of books Format: Book







Position of signature: 2

Mariano Martín Martín; Ignacio E. Grossmann. Process systems engineering approach to biofuel plant design. Biomass and Biofuels: Advanced Biorefineries for Sustainable Production and Distribution. 2015. Available online at: http://www.crcpress.com/product/isbn/9781466595316>. ISBN 978-1-4665-9531-6

Type of production: Chapters of books Format: Book

Position of signature: 1 Degree of contribution: Author or co-author of chapter

in book

10 Optimal annual operation of the dry cooling system of a Concentrated Solar Energy Plant in the South of Spain.

Energy. 84, pp. 774 - 782. Elsevier, 2015. ISSN 0360-5442

Type of production: Article Format: Journal

Impact source: SCOPUS Category: Science Edition - THERMODYNAMICS

Impact index in year of publication: 3.487

Position of publication: 4

Journal in the top 25%: Yes

No. of journals in the cat.: 52

Marta Vidal Otero; Mariano Martín Martín. Optimal coupling of biomass and solar energy for the production of electricity and chemicals. Computers & Chemical Enigneering. 72, pp. 273 - 283. Elsevier, 2015. Available online

at: <DOi:10.1016/j.compchemeng.2013.11.006>. ISSN 0098-1354

Type of production: Article Format: Journal

Position of signature: 2 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS Category: Science Edition - ENGINEERING,

CHEMICAL

Impact index in year of publication: 2.091

Journal in the top 25%: Yes

Position of publication: 12

No. of journals in the cat.: 187

12 Optimal production of biodiesel (FAEE) and bioethanol from switchgrass. Ind Eng. Chem Res.54, pp. 4337 - 4346.

A.C.S., 2015. ISSN 0888-5885

Type of production: Article Format: Journal

Impact source: SCOPUS Category: Chemical Engineering (miscellaneous)

Impact index in year of publication: 2.235

Position of publication: 30

Journal in the top 25%: Yes

No. of journals in the cat.: 133

Laura Bueno Romo; Caudio Andrés Toro Aedo; Mariano Martín Martín. Techno-economic evaluation of the production of added value polymers from glycerol. Chem. Eng. Res. Des.93, pp. 432 - 440. Elsevier, 2015. ISSN

0263-8762

Type of production: Article Format: Journal

Position of signature: 3 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS

Category: Chemical Engineering
Impact index in year of publication: 2.281

Journal in the top 25%: Yes

Position of publication: 37 No. of journals in the cat.: 133

Mariano Martín Martín; Alberto Martínez Bécare. Addressing Uncertainty in formulated products and process design. Industrial engineering Chemistry Research. 10.1021/acs.iecr.5b0, ACS, 2015. ISSN 0888-5885

Type of production: Articles in the press

Impact source: SCOPUS

Position of signature: 1 Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

Category: Chemical Engineering (miscellaneous)







Impact index in year of publication:

Position of publication: 30

Journal in the top 25%: Yes

No. of journals in the cat.: 133

Mariano Martín Martín; Ignacio E. Grossmann. Integrating Glycerol to Methanol vs. Glycerol to Ethanol within the Production of Biodiesel from Algae. 24th ESCAPE. Comp. Aided. Chem. Eng. 33, pp. 85 - 90. Elsevier, 2014.

ISBN 978-0-444-63456-6

Collection: Comp. Aided. Chem. Eng

Type of production: Chapters of books Format: Book

Degree of contribution: Author or co-author of chapter in book

Lidija Cucek; Mariano Martín Martín; Ignacio E. Grossmann; Zdravko Kravanja. Large-Scale Biorefinery Supply Network – Case Study of the European Union.24th ESCAPE. Comp. Aided. Chem. Eng. 33, pp. 319 - 324.

Elsevier, 2014. ISBN 978-0-444-63456-6 **Collection:** Comp. Aided. Chem. Eng

Type of production: Chapters of books Format: Book

Degree of contribution: Author or co-author of chapter in book

Marta Vidal; Lidia Martín; Mariano Martín Martín. Optimal Integration of a Concentrated Solar Plant Facility with a Biomass Based Polygeneration System. 24th ESCAPE. Comp. Aided. Chem. Eng. 33, pp. 1603 - 1608. Elsevier,

2014. ISBN 978-0-444-63456-6

Collection: Comp. Aided. Chem. Eng

Type of production: Chapters of books Format: Book

Degree of contribution: Author or co-author of chapter in book

18 Laura Bueno Romo; Claudio Toro; Mariano Martín Martín. Scale-up and Techno-economical Study for the Production of Polyesters from Glycerol. 24th ESCAPE. Comp. Aided. Chem. Eng. 33, pp. 43 - 48. Elsevier, 2014.

ISBN 978-0-444-63456-6

Collection: Comp. Aided. Chem. Eng

Type of production: Chapters of books Format: Book

Degree of contribution: Author or co-author of chapter in book

Verónica de la Cruz; Sara Hernández; Mariano Martín Martín; Ignacio Grossmann. Self-sufficient Integrated Algae Based Facility for Diesel Substitutes: FAEE and Glycerol Ethers. PROCEEDINGS OF THE 8th INTERNATIONAL CONFERENCE ON FOUNDATIONS OF COMPUTERAIDED PROCESS DESIGN. 34, pp. 495 - 500. (United States of America): Floavior, CACHE, 2014, ISBN 078-0-444-62423-7.

States of America): Elsevier_CACHE, 2014. ISBN 978-0-444-63433-7 **Type of production:** Chapters of books **Format:** Book

Position of signature: 3 Degree of contribution: Author or co-author of chapter

in book

Format: Journal

20 Mariano Martín Martín. Carbon Capture, How and then What?. J Adv Chem Eng. pp. e102. Omics, 2014. ISSN

2090-455X

Type of production: Article Format: Journal

Verónica de la Cruz; Sara Hernández; Mariano Martín Martín; Ignacio E. Grossmann. Integrated synthesis of Biodiesel, Bioethanol, Ibutene and glycerol ethers from algae. Industrial Eng. Chem. Res. 53 - 28, pp. 11371 -

11383. A.C.S., 2014. ISSN 0888-5885

Type of production: Article

Impact source: SCOPUS Category: Chemical Engineering (miscellaneous)

Impact index in year of publication: 2.235

Position of publication: 30

Journal in the top 25%: Yes

No. of journals in the cat.: 133







Impact index in year of publication: 2.07

Position of publication: 12

Lidija Cucek; Mariano Martín Martín; Ignacio E. Grossmann; Zdravko Kravanja. Multiperiod Synthesis of Integrated Biomass and Bioenergy Supply Network. Computers Chemical Engineering. 66, pp. 57 - 70. Elseviewer, 2014.

ISSN 0098-1354

Type of production: Article Format: Journal

Position of signature: 2 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS Category: Chemical Engineering (miscellaneous)

Journal in the top 25%: Yes
No. of journals in the cat.: 187

Lidija Cucek; Mariano Martín Martín; Ignacio E. Grossmann; Zdravko Kravanja. Multiperiod Synthesis of Integrated Biomass and Bioenergy Supply Network. Computers Chemical Engineering. 66, pp. 57 - 70. Elsevier, 2014. ISSN

0098-1354

Type of production: Article Format: Journal

Position of signature: 2 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUSCategory: Computer ScienceImpact index in year of publication: 2.091Journal in the top 25%: Yes

Position of publication: 20

No. of journals in the cat.: 97

Mariano Martín Martín. On the challenges of the use and integration of renewable energy sources. Energ. Res. J.5

- 1, pp. 1 - 3. Science Publications, 2014. ISSN 1949-0151

Type of production: Article Format: Journal

Mariano Martín Martín; Ignacio Grossmann. Optimal Simultaneous Production of Hydrogen and Liquid Fuels from Glycerol: Integrating the Use of Biodiesel Byproducts. Industrial Engineering Chemistry Research.

10.1021/ie500067d, ACS, 2014. ISSN 0888-5885

Type of production: Article Format: Journal

Position of signature: 1 Degree of contribution: Author or co-author of article in iournal with external admissions assessment committee.

journal with external admissions assessment committee

Impact source: SCOPUS Category: Chemical Engineering (miscellaneous)

Impact index in year of publication: 2.206

Position of publication: 19

Journal in the top 25%: Yes

No. of journals in the cat.: 187

Mariano Martín Martín; Ignacio E. Grossmann. Optimal Simultaneous Production of Hydrogen and Liquid Fuels from Glycerol: Integrating the Use of Biodiesel Byproducts. Ind. Eng. Chem. Res. 53 - 18, pp. 7730 - 7745. A.C.S.,

2014. ISSN 0888-5885

Type of production: Article Format: Journal

Impact source: SCOPUS Category: Chemical Engineering (miscellaneous)

Impact index in year of publication: 2.24

Position of publication: 30

Journal in the top 25%: Yes

No. of journals in the cat.: 133

Mariano Martín Martín; Ignacio E. Grossmann. Optimal simultaneous enhanced production of biodiesel and bioethanol from algae oil via Glycerol fermentation. App. Energy. 135, pp. 108 - 114. Elsevier, 2014. ISSN

0306-2619

Type of production: Article Format: Journal

Impact source: SCOPUS
Impact index in year of publication: 5.261
Position of publication: 1

Category: Energy (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 110







William Davis Fernández; Mariano Martín Martín. Optimal year-round operation for methane production from CO2 and Water using wind and/or Solar energy. J. Cleaner Production. 80, pp. 252 - 261. Elsevier, 2014. ISSN

0959-6526

Type of production: Article Format: Journal

Impact source: SCOPUS Category: Renewable Energy, Sustainability and the

Environment

Journal in the top 25%: Yes

Impact index in year of publication: 3.398

Position of publication: 15 No. of journals in the cat.: 62

William Davis Fernández; Mariano Martín Martín. Optimal year-round operation for methane production from CO2 and Water using wind and/or Solar energy. J. Cleaner production. 80, pp. 252 - 261. Elsevier, 2014. ISSN

0959-6526

Type of production: Article Format: Journal

Impact source: SCOPUS Category: Renewable Energy, Sustainability and the

Environment.)

Impact index in year of publication: 3.398

Journal in the top 25%: Yes

Position of publication: 15 No. of journals in the cat.: 62

William Davis Fernández; Mariano Martín Martín. Optimal year-round operation for methane production from CO2 and Water using wind energy. Energy. 69, pp. 497 - 505. 2014. Available online at:

<10.1016/j.energy.2014.03.043>. ISSN 0360-5442

Type of production: Article Format: Journal

Position of signature: 2 Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

Impact source: ISI

Impact index in year of publication: 3.651

Position of publication: 5

Journal in the top 25%: Yes
No. of journals in the cat.: 189

Category: Energy (miscellaneous)

Mariano Martín Martín; Ignacio E. Grossmann. Optimization simultaneous production of ethanol and ibutene from Switchgrass. J. Biomass Bioenergy. 61, pp. 93 - 103. Elsevier, 2014. Available online at:

<10.1016/j.biombioe.2013.11.022>. ISSN 0961-9534

Type of production: Article Format: Journal

Position of signature: 1 Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS Category: Energy (miscellaneous)
Impact index in year of publication: 2.975 Journal in the top 25%: Yes

Position of publication: 8 No. of journals in the cat.: 189

32 Marta Vidal Otero; Mariano Martín Martín. Planta de producción de silicio para módulos fotovoltaicos. Era Solar.

180, pp. 24 - 35. S.A.P.T. PUBLICACIONES TÉCNICAS, S.L., 2014. ISSN 0212-4157

Type of production: Article Format: Journal

Marta Vidal Otero; Mariano Martín Martín. Planta de producción de silicio para módulos fotovoltaicos.ERA SOLAR. 180, pp. 24 - 35. SAPT Publicaciones Técnicas S.L., 2014. Available online at:

http://erasolar.es/EDICION%20DIGITAL/ERASOLAR-DIGITAL-180/PROMO/DEMO-ERASOLAR-180.html#p=10>.

ISSN 0212-4157

Type of production: Article Format: Journal

Position of signature: 2 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee







34 Ignacio E. Grossmann; Mariano Martín Martín; Linlin Yang. Review of Optimization Models for Integrated Process Water Networks and their Application to Biofuel Processes. Current opinion in Chemical Engineering. 5, pp. 101 -109. Elsevier, 2014. Available online at: http://dx.doi.org/10.1016/j.coche.2014.07.003>. ISSN 2211-3398

Type of production: Article Format: Journal

Position of signature: 2 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS Category: Energy (miscellaneous) Journal in the top 25%: Yes Impact index in year of publication: 2.167

Position of publication: 11 No. of journals in the cat.: 189

35 Ignacio E. Grossmann; Mariano Martín Martín; Linlin Yang. Review of Optimization Models for Integrated Process Water Networks and their Application to Biofuel Processes. Current Opinion on Chemical Engineering. 5, pp. 101 -

109. Elsevier, 2014. ISSN 2211-3398

Type of production: Article Format: Journal

Impact source: SCOPUS Category: Energy (miscellaneous) Impact index in year of publication: 2.167 Journal in the top 25%: Yes

Position of publication: 11 No. of journals in the cat.: 189

36 Mariano Martín Martín; Ignacio E. Grossmann. Simultaneous dynamic optimization and heat integration for the co-production of diesel substitutes: Biodiesel (FAME & FAEE) and glycerol ethers from algae oil.Ind. Eng. Chem

Res.53, pp. 11371 - 11383. A.C.S., 2014. ISSN 0888-5885

Type of production: Article Format: Journal

Impact source: SCOPUS **Category:** Chemical Engineering (miscellaneous)

Impact index in year of publication: 2.235 Journal in the top 25%: Yes Position of publication: 33 No. of journals in the cat.: 133

37 Mariano Martín Martín; Ignacio Grossmann. Simultaneous dynamic optimization and heat integration for the co-production of diesel substitutes: Biodiesel (FAME & FAEE) and glycerol ethers from algae oil.Ind. Eng. Chem Res. 53, pp. 11371 - 11383. ACS, 2014. ISSN 0888-5885

Type of production: Article Format: Journal

Impact source: SCOPUS Category: Chemical Engineering (miscellaneous)

Impact index in year of publication: 2.24 Journal in the top 25%: Yes Position of publication: 30 No. of journals in the cat.: 133

38 Verónica de la Cruz; Sara Hernández; Mariano Martín Martín; Ignacio E. Grossmann. Integrated synthesis of Biodiesel, Bioethanol, Ibutene and glycerol ethers from algae. Ind. Eng. Chem. Res. 10.1021/ie5022738, ACS, 2014. Available online at: <10.1021/ie5022738>. ISSN 0888-5885

Type of production: Articles in the press Format: Journal

Position of signature: 3 Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

Impact source: SCOPUS Category: Chemical Engineering (miscellaneous)

Impact index in year of publication: 2.24 Journal in the top 25%: Yes

Position of publication: 30 No. of journals in the cat.: 133

Mariano Martín Martín: Ignacio E. Grossmann. Optimal simultaneous enhanced production of biodiesel and bioethanol from algae oil via Glycerol fermentation. Applied Energy. 10.1016/j.apenergy.2, Elsevier, 2014. Available online at: <10.1016/j.apenergy.2014.08.054>. ISSN 0306-2619

Type of production: Articles in the press Format: Journal







Position of signature: 1

Impact source: SCOPUS

Impact index in year of publication: 5.261

Position of publication: 1

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Energy (miscellaneous)
Journal in the top 25%: Yes

No. of journals in the cat.: 110

40 Mariano Martín Martín; Alberto Martínez Bécares. A methodology for simultaneous product and process design in the customer products industry: The case study of the laundry business.23rd ESCAPE. Computer aided chemical

engineering. 32, pp. 715 - 720. Lappeeranta(Finland): Elseviewer, 2013. ISBN 978-0-444-63234-0

Collection: Computer aided chemical engineering

Type of production: Chapters of books Format: Book

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Lidija Cucek; Mariano Martín Martín; Ignacio E. Grossmann; Zdravko Kravanja. Multiperiod synthesis of a biorefinery's supply network. 23rd ESCAPE. Computer aided chemical engineering. 32, pp. 73 - 78. Elseviewer,

2013. ISBN 978-0-444-63234-0

Type of production: Chapters of books

Position of signature: 2

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

42 Mariano Martín Martín; Alberto Martínez Bécares. A Methodology for simultaneous process and product design in the consumer products industry: The case study of the laundry business. Chem. Eng. Res. Des.91, pp. 795 - 809.

Elsevier, 2013. Available online at: <DOI : 10.1016/j.cher>. ISSN 0263-8762 **Type of production:** Article **Format:** Journal

Position of signature: 1

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS Category: Science Edition - ENGINEERING,

CHEMICAL

Format: Book

Impact index in year of publication: 1.968

Position of publication: 37

Journal in the top 25%: Yes

No. of journals in the cat.: 133

Mariano Martín Martín; Ignacio E. Grossmann. ASI: Towards the optimal integrated production of biodiesel with internal recycling of methanol produced from glycerol. Environmental Progress & Sustainable Energy. 32 - 4, pp. 791 - 801. John Wiley and SOns, 2013. Available online at: <DOI 10.1002/ep.11836>. ISSN 1944-7450

Type of production: Article Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS

Category: Renewable Energy, Sustainability and the

Environment

Impact index in year of publication: 0.865

Position of publication: 27
Source of citations: SCOPUS

Journal in the top 25%: No No. of journals in the cat.: 62

Citations: 2

Mariano Martín Martín; Ignacio Grossmann. On the systematic synthesis of sustainable biorefineries. Ind. Eng. Chem. Res.52, pp. 3044 - 3064. ACS, 2013. ISSN 0888-5885

Towns of some leasting Astists

Type of production: Article Format: Journal

Position of signature: 1 Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS Category: Science Edition - ENGINEERING,

CHEMICAL

Impact index in year of publication: 2.07 Journal in the top 25%: Yes







Position of publication: 30

Citations: 0 Source of citations: SCOPUS Source of citations: SCOPUS Citations: 11

45 Kristen Severson; Mariano Martín Martín; Ignacio Grossmann. Optimal integration for biodiesel production using

bioethanol. AIChE Journal. 59 - 3, pp. 834 - 844. Wiley, 2013. ISSN 0001-1541

Type of production: Article Format: Journal

Degree of contribution: Author or co-author of article in Position of signature: 2 journal with external admissions assessment committee

Impact source: SCOPUS **Category:** Chemical Engineering (miscellaneous)

Impact index in year of publication: 2.03 Journal in the top 25%: Yes Position of publication: 21 No. of journals in the cat.: 189

Source of citations: SCOPUS Citations: 2

46 Mariano Martín Martín; Ignacio Grossmann. Optimal use of Hybrid feedstock, Switchgrass and Shale gas, for the Simultaneous production of Hydrogen and Liquid Fuels. Energy. 55, pp. 378 - 391. Elsevier, 2013. ISSN 0360-5442

Type of production: Article Format: Journal

Position of signature: 1 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS Category: Energy (miscellaneous) Impact index in year of publication: 3.487 Journal in the top 25%: Yes

Position of publication: 5 No. of journals in the cat.: 189

Citations: 8

47 Lidia Martín Delgado; Mariano Martín Martín. Optimal year-round operation of a Concentrated Solar Energy Plant in the South of Europe. Applied Thermal Engieering. 59, pp. 627 - 633. Elseviewer, 2013. Available online at: <DOI:10.1016/j.applthermaleng.2013.06.031>. ISSN 1359-4311

Type of production: Article Format: Journal

Position of signature: 2 **Degree of contribution:** Author or co-author of article in

journal with external admissions assessment committee

Impact source: SCOPUS **Category:** Energy Engineering and Power Technology

Impact index in year of publication: 2.389 Journal in the top 25%: Yes Position of publication: 12 No. of journals in the cat.: 74

Cristina Rodríguez Rivero; José Nogareda; Mariano Martín Martín; Eva Martín del Valle; Miguel Galán Serrano. Validation and modeling of a process for microparticle production from non-Newtonian fluids by CFD. Powder technology. DOW, ELSEVIEWER, 2013. Available online at: <doi: 10.1016/j.powtec.2013.05.050>. ISSN

0032-5910

Position of publication: 27

Type of production: Article Format: Journal

Position of signature: 3 Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS **Category:** Chemical Engineering (miscellaneous) Impact index in year of publication: 2.08

Journal in the top 25%: Yes No. of journals in the cat.: 187







49 Mariano Martín Martín; Ignacio Grossmann. BIOptPACK: A Library of models for Optimization of Biofuel Production Processes. 22nd ESCAPE. Comp. Aid. Chemical Engineering. 30, pp. 16 - 20. Elsevier, 2012. ISBN

978-0-444-59519-5 Collection: Comp. Aid. Chemical Engineering

Type of production: Chapters of books

Format: Book Position of signature: 1

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

50 Mariano Martín Martín; Ignacio Grossmann. Systematic synthesis of sustainable biorefineries. Integrated Biorefineries: Design, Analysis, and Optimization. pp. 325 - 347. Taylor & Francis, 2012. ISBN 978-1-439-80346-2

Type of production: Chapters of books Format: Book

Position of signature: 1 **Degree of contribution:** Author or co-author of article in

journal with external admissions assessment committee

51 Mariano Martín Martín; Ignacio Grossmann. Energy optimization of bioethanol production via hydrolysis of switchgrass. AIChE Journal. 58 - 5, pp. 1538 - 1549. Wiley, 2012. ISSN 0001-1541

Type of production: Article Format: Journal

Position of signature: 1 Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

Impact source: SCOPUS Category: Chemical Engineering (miscellaneous)

Impact index in year of publication: 2.03 Journal in the top 25%: Yes Position of publication: 21 No. of journals in the cat.: 189

Source of citations: SCOPUS Citations: 24

Relevant results: 5th Top cited paper AICHE 2012 http://onlinelibrary.wiley.com/journal/10.1002/%28ISSN

%291547-5905/homepage/MostCited.html#cited12

52 Mariano Martín Martín; Ignacio Grossmann. Simultaneous Optimization and Heat Integration for Biodiesel Production from Cooking Oil and Algae. Industrial & Engineering Chemistry Research. 51 - 23, pp. 7998 - 8014.

ACS, 2012. ISSN 0888-5885

Type of production: Article Format: Journal

Position of signature: 1 Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS **Category:** Chemical Engineering (miscellaneous)

Impact index in year of publication: 2.07 Journal in the top 25%: Yes Position of publication: 19 No. of journals in the cat.: 187

Source of citations: SCOPUS Citations: 27

53 Lidija Cucek; Mariano Martín Martín; Zdravko Kravanja; Ignacio Grossmann. Integration of Process Technologies for the Simultaneous Production of fuel Ethanol and food from Corn grain and stover. 21st ESCAPE. Computer Aided Process Engineering. 29, pp. 2004 - 2008. Elsevier, 2011. ISBN 978-0-444-53569-6

Collection: Comp. Aid. Chemical Engineering

Type of production: Chapters of books Format: Book

Position of signature: 1 Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Mariano Martín Martín; Ignacio Grossmann. Process optimization of F-T Diesel production from biomass. 21st

ESCAPE. Computer Aid. Chem. Eng.29, pp. 1698 - 1702. Elsevier, 2011. ISBN 978-0-444-53569-6

Collection: Comp. Aid. Chemical Engineering

Type of production: Chapters of books Format: Book

Position of signature: 1







Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Mariano Martín Martín; Ignacio Grossmann. Energy Optimization of Bioethanol Production via Gasification of

Switchgrass. AIChE Journal. 57 - 12, pp. 3408 - 3428. Wiley, 2011. ISSN 0001-1541

Type of production: Article Format: Journal

Position of signature: 1 Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

Impact source: SCOPUS Category: Chemical Engineering (miscellaneous)

Impact index in year of publication: 2.03

Journal in the top 25%: Yes

Position of publication: 23

No. of journals in the cat.: 187

Source of citations: SCOPUS Citations: 42

Relevant results: 7th Top cited paper AIChE 2011 http://onlinelibrary.wiley.com/journal/10.1002/%28ISSN

%291547-5905/homepage/MostCited.html#cited12

Mariano Martín Martín; Ignacio Grossmann. Energy optimization of hydrogen production from lignocellulosic biomass. Computers and Chemical Engineering. 35, pp. 1798 - 1806. Elsevier, 2011. ISSN 0098-1354

Type of production: Article Format: Journal

Position of signature: 1 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS Category: Chemical Engineering (miscellaneous)

Impact index in year of publication: 2.07

Position of publication: 16

Journal in the top 25%: Yes

No. of journals in the cat.: 187

Source of citations: SCOPUS Citations: 25

Relevant results: (21/25 hottest articles July / Sep 2011)

Lidija Cucek; Mariano Martín Martín; Ignacio Grossmann; Zdravko Kravanja. Energy, water and process technologies integration for the simultaneous production of ethanol and food from the entire corn plant. Computers

and Chemical Engineering. 35, pp. 1547 - 1557. Elsevier, 2011. ISSN 0098-1354

Type of production: Article Format: Journal

Position of signature: 2 Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

Impact source: SCOPUS Category: Chemical Engineering (miscellaneous)

Impact index in year of publication: 2.07

Position of publication: 16

Journal in the top 25%: Yes

No. of journals in the cat.: 187

Source of citations: SCOPUS Citations: 29

Relevant results: Top cited paper 2010-2012 Comp. CHem. Eng Most Cited Articles, 2010 - 2012 Articles, 2010-

2012 Awarded to: L. Cucek, M. Martin, I.E. Grossmann, Z. Kravanja

58 Mariano Martín Martín; Elvis Ahmetovic; Ignacio Grossmann. Optimization of Water Consumption in Second

Generation bioethanol plants. Ind. Eng. Chem. Res. 50, pp. 3705 - 3721. ACS, 2011. ISSN 0888-5885

Type of production: Article Format: Journal

Position of signature: 1 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS Category: Chemical Engineering (miscellaneous)

Impact index in year of publication: 2.07

Journal in the top 25%: Yes

Position of publication: 20

No. of journals in the cat.: 187

Source of citations: SCOPUS Citations: 17







Mariano Martín Martín; Ignacio Grossmann. Process Optimization of FT-Diesel Production from Lignocellulosic Switchgrass. Industrial & Engineering Chemistry Research. 50 - 23, pp. 13485 - 13499. ACS, 2011. ISSN

0888-5885

Type of production: Article Format: Journal

Position of signature: 1 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS Category: Science Edition - ENGINEERING,

CHEMICAL

Journal in the top 25%: Yes

Impact index in year of publication: 2.07

Position of publication: 29

Source of citations: SCOPUS Citations: 38

Mariano Martín Martín; Miguel A. Galán Serrano; Ramón Cerro; Francisco J. Montes Sánchez. Shape oscillating bubbles: hydrodynamics and mass transfer - a review. Bubble Science, Engineering and Technology. 3 - 2, pp. 48

- 63. W. S. Maney & Son Ltd, 2011. ISSN 1758-8960

Type of production: Article Format: Journal

Position of signature: 1 Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

Relevant results: Invited paper to the new journal

Mariano Martín Martín; Ignacio Grossmann. Superstructure optimization of Lignocellulosic Bioethanol plants. 20th ESCAPE. Computer aided chemical engineering. 28, pp. 943 - 948. Pergamon-Elsevier Science Ltd Colección,

2010. ISBN 978-0-444-53569-6

Type of production: Chapters of books Format: Book

Position of signature: 1 Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

Ramkumar Karuppiah; Mariano Martín Martín; Ignacio Grossmann. A simple heuristic for reducing the number of scenarios in two-stage stochastic programming. Computers and Chemical Engineering. 34, pp. 1246 - 1255.

Elsevier, 2010. ISSN 0098-1354

Type of production: Article Format: Journal

Position of signature: 2 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS Category: Chemical Engineering (miscellaneous)

Impact index in year of publication: 2.07 Journal in the top 25%: Yes

Position of publication: 12

No. of journals in the cat.: 187

Source of citations: SCOPUS Citations: 14

Mariano Martín Martín; Francisco J. Montes Sánchez; Miguel A. Galán Serrano. Approximate theoretical solution for the Sherwood number of oscillating bubbles. Chemical Engineering and Processing. 49, pp. 245 - 254.

Elsevier, 2010. ISSN 0255-2701

Type of production: Article Format: Journal

Position of signature: 1 Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS Category: Chemical Engineering (miscellaneous)

Impact index in year of publication: 1.73

Journal in the top 25%: Yes
Position of publication: 17

No. of journals in the cat.: 187

Source of citations: SCOPUS Citations: 4







64 Ignacio Grossmann; Mariano Martín Martín. Energy and Water Optimization in Biofuel Plants. Chinese Journal of

Chemical Engineering. 18 - 6, pp. 914 - 922. Elsevier, 2010. ISSN 1004-9541

Type of production: Article Format: Journal

Position of signature: 2 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS Category: Chemical Engineering (miscellaneous)

Impact index in year of publication: 0.9

Position of publication: 53

Journal in the top 25%: No
No. of journals in the cat.: 187

Source of citations: SCOPUS Citations: 32

Relevant results: Invited paper

Mariano Martín Martín; Francisco J. Montes Sánchez; Miguel A Galán Serrano. Mass transfer rates from bubbles in stirred tanks operating with viscous fluids. Chemical Engineering Science. 65, pp. 3814 - 3824. Elsevier, 2010.

ISSN 0009-2509

Type of production: Article Format: Journal

Position of signature: 1 Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

Impact source: SCOPUS Category: Chemical Engineering (miscellaneous)

Impact index in year of publication: 2.38

Journal in the top 25%: Yes

Position of publication: 7

No. of journals in the cat.: 187

Source of citations: SCOPUS Citations: 9

Relevant results: (17/25 Hottest articles Chemical Engineering Science April June 2010)

66 Elvis Ahmetovic; Mariano Martín Martín; Ignacio Grossmann. Optimization of Energy and Water Consumption in

Corn-Based Ethanol Plants. Ind. Eng. Chem. Res. 49, pp. 7972 - 7982. ACS, 2010. ISSN 0888-5885

Type of production: Article Format: Journal

Position of signature: 2 Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

Impact source: SCOPUS Category: Chemical Engineering (miscellaneous)

Impact index in year of publication: 2.07

Position of publication: 16

Journal in the top 25%: Yes

No. of journals in the cat.: 187

Source of citations: SCOPUS Citations: 52

67 Mariano Martín Martín; Zayeed Alam; Elizabeth Alam; David York. Basic model for the washing process. Procter

and Gamble, 2009.

Type of production: Scientific and technical document Format: Scientific and technical document or report

or report

Position of signature: 1 Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

Relevant results: This is an internal technical report for P&G

Mariano Martín Martín; Francisco J. Montes Sánchez; Miguel A. Gálan Serrano. Mass transfer from oscillating

bubbles in bubble column reactors. Chemical Engineering Journal. 151, pp. 79 - 88. Elsevier, 2009. ISSN

1385-8947

Type of production: Article Format: Journal

Position of signature: 1 Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

Category: Chemical Engineering (miscellaneous)



Impact source: SCOPUS





Impact index in year of publication: 2.82 Journal in the top 25%: Yes Position of publication: 13 No. of journals in the cat.: 187

Source of citations: SCOPUS Citations: 9

Mariano Martín Martín; Francisco J. Montes Sánchez; Miguel A Galán Serrano. Physical explanation of the empirical coefficients of gas-liquid mass transfer equations. Chemical Engineering Science. 64, pp. 410 - 425.

Elsevier, 2009. ISSN 0009-2509

Type of production: Article Format: Journal

Position of signature: 1 **Degree of contribution:** Author or co-author of article in

journal with external admissions assessment committee

Impact source: SCOPUS Category: Chemical Engineering (miscellaneous)

Impact index in year of publication: 2.14 Journal in the top 25%: Yes Position of publication: 8 No. of journals in the cat.: 187

Source of citations: SCOPUS Citations: 8

70 Mariano Martín Martín; Francisco J. Montes Sánchez; Miguel A. Galán Serrano. Theoretical modelling of the effect of surface active species on on the mass ransfer in bubble column reactors. Chemical Engineering Journal. 155,

pp. 272 - 284. Elsevier, 2009. ISSN 1385-8947

Type of production: Article Format: Journal

Position of signature: 1 **Degree of contribution:** Author or co-author of article in

journal with external admissions assessment committee

Impact source: SCOPUS Category: Chemical Engineering (miscellaneous)

Impact index in year of publication: 2.82 Journal in the top 25%: Yes Position of publication: 13

Source of citations: SCOPUS Citations: 13

71 Mariano Martín Martín; Francisco J. Montes Sánchez; Miguel A Galán Serrano. Bubbling process in stirred tank reactors I: Agitator effect on bubble size, formation and rising. Chemical Engineering Science. 63, pp. 3212 - 3222.

Elsevier, 2008. ISSN 0009-2509

Type of production: Article Format: Journal

Position of signature: 1 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS Category: Chemical Engineering (miscellaneous)

Impact index in year of publication: 1.88 Journal in the top 25%: Yes Position of publication: 7 No. of journals in the cat.: 187

Source of citations: SCOPUS Citations: 15

Relevant results: (19/25 Hottest articles Chemical Engineering Science April June 2008)

72 Mariano Martín Martín; Francisco J. Montes Sánchez; Miguel A. Galán Serrano. Influence of Impeller Type on the Bubble Breakup Process in Stirred Tanks. Ind. Eng. Chem. Res.47, pp. 6251 - 6263. ACS, 2008. ISSN 0888-5885

Format: Journal Type of production: Article

Position of signature: 1 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee

Impact source: SCOPUS Category: Chemical Engineering (miscellaneous)

Impact index in year of publication: 1.9 Journal in the top 25%: Yes No. of journals in the cat.: 187 Position of publication: 12

Source of citations: SCOPUS Citations: 14







Mariano Martín Martín; Francisco J. Montes Sánchez; Miguel A Galán Serrano. Mass Transfer Rates from Oscillating Bubbles in Bubble Columns Operating with viscous fluids. Ind. Eng. Chem. Res.47, pp. 9527 - 9536.

ACS, 2008. ISSN 0888-5885

Type of production: Article

Position of signature: 1

Impact source: SCOPUS

Impact index in year of publication: 1.9

Position of publication: 12

Source of citations: SCOPUS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Chemical Engineering (miscellaneous)

Journal in the top 25%: Yes No. of journals in the cat.: 187

Citations: 8

Mariano Martín Martín; Francisco J. Montes Sánchez; Miguel A. Galán Serrano. On the contribution of the scales of mixing to the oxygen transfer in stirred tanks. Chemical Engineering Journal. 145, pp. 232 - 241. Elsevier, 2008.

ISSN 1385-8947

Type of production: Article

Position of signature: 1

Impact source: SCOPUS

Impact index in year of publication: 2.81

Position of publication: 13

Source of citations: SCOPUS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Chemical Engineering (miscellaneous)

No. of journals in the cat.: 187

Citations: 16

Mariano Martín Martín; Juan M. García; Francisco J. Montes Sánchez; Miguel A. Galán Serrano. On the effect of the orifice configuration on the coalescence of of growing bubbles. Chemical Engineering and Processing. 47, pp.

1799 - 1809. Elsevier, 2008. ISSN 0255-2701

Type of production: Article

Position of signature: 1

Impact source: SCOPUS

Impact index in year of publication: 1.52

Position of publication: 23

Source of citations: SCOPUS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Chemical Engineering (miscellaneous)

Journal in the top 25%: Yes

No. of journals in the cat.: 187

Citations: 15

Mariano Martín Martín; Francisco J. Montes Sánchez; Miguel A. Galán Serrano. Oxygen transfer from growing bubbles: Effect of the physical properties of the liquid. Chemical Engineering Journal. 128, pp. 21 - 32. Elsevier,

2007. ISSN 1385-8947

Type of production: Article

Position of signature: 1

Impact source: SCOPUS

Impact index in year of publication: 1.71

Position of publication: 13

Source of citations: SCOPUS

Format: Journal

Degree of contribution: Author or co-author of article in

journal with external admissions assessment committee

Category: Chemical Engineering (miscellaneous)

Journal in the top 25%: Yes

No. of journals in the cat.: 187

Citations: 10

Mariano Martín Martín; Francisco J. Montes Sánchez; Miguel A. Galán Serrano. Numerical calculation of shapes and detachment times of bubbles generated from a sieve plate. Chemical Engineering Science. 61, pp. 363 - 369.

Elsevier, 2006. ISSN 0009-2509







Type of production: Article Position of signature: 1

Impact source: SCOPUS

Impact index in year of publication: 1.63

Position of publication: 6

Source of citations: SCOPUS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Chemical Engineering (miscellaneous)

Journal in the top 25%: Yes No. of journals in the cat.: 187

Citations: 25

Mariano Martín Martín; Francisco J. Montes Sánchez; Miguel A. Gálan Serrano. On the influence of the liquid physical properties on bubble volumes and generation times. Chemical Engineering Science. 61, pp. 5196 - 5203.

Elsevier, 2006. ISSN 0009-2509

Type of production: Article

Position of signature: 1

Impact source: SCOPUS

Impact index in year of publication: 1.63

Position of publication: 6

Source of citations: SCOPUS

Format: Journal

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Category: Chemical Engineering (miscellaneous)

Journal in the top 25%: Yes No. of journals in the cat.: 187

Citations: 20

Mariano Martín Martín; Aitor Hornés Martínez; Luis M Martín Tamames; Rubén Sancho; M. Carmen Márquez. Simulación de la fabricación de benceno a partir de tolueno: Aplicación del simulador comercial CHEMCAD.

Ingenieria Quimica. Octubre - 406, pp. 140 - 150. Alcion, 2003. ISSN 0210-2064

Type of production: Article Format: Journal Position of signature: 1 Degree of contractions and the signature of the signatur

Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

Relevant results: IT IS A WELL SPREAD PUBLICATION TYPICALLY AVAILABLE IN THE LIBRARIES OF THE CHEMICAL COMPANIES ACROSS SPAIN WHICH NOT ONLY PRESENT RESEARCH PAPERS BUT THE

NEWS OF THE SPANISH CHEMICAL INDUSTRY

Works submitted to national or international conferences

1 Title of the work: Optimal production of furfural and DMF drom algae and switchgrass

Name of the conference: ESCAPE/PSE

Type of event: Conference
Type of participation: Speaker
City of event: Copenhagen, Denmark

Date of event: 03/06/2015 **Organising entity:** DTU- EFCE

With external admission assessment committee: Yes

Type of contribution: Chapters of books

Mariano Martín Martín; Ignacio Grossmann. 37, pp. 1043 - 1049. 2015. ISBN 978-0-444-63429-0

2 Title of the work: Optimal integration of the year-round operation for methane production from CO2 and

water using wind, solar and biomass

Name of the conference: ESCAPE/PSE

Type of event: Conference
Type of participation: Speaker
City of event: Copenhagen, Denmark

Date of event: 01/06/2015







Organising entity: DTU- EFCE

Type of contribution: Chapters of books

Mariano Martín Martín; William Davis Fernández. 37, pp. 2261 - 2266. Elsevier, 2015. ISBN 9780444634290

3 Title of the work: . Optimal Simultaneous Production of Biodiesel (FAEE) and Bioethanol from Switchgrass

Name of the conference: AIChE Annual Meeting

Type of event: Conference City of event: Atlanta, Date of event: 19/11/2014

Organising entity: AIChE Type of entity: Foundation

Mariano Martín Martín; Ignacio E. Grossmann.

4 Title of the work: Optimal Year-Round Operation For Methane Production From CO2 And Water Using

Wind And/Or Solar Energy

Name of the conference: AIChE Annual Meeting

Type of event: Conference City of event: Atlanta, Date of event: 18/11/2014

Organising entity: AIChE Type of entity: Foundation

William Davis Fernández; Mariano Martín Martín.

5 Title of the work: Sustainable Biorefinery Supply Network using a Concept of Eco- and Total Profit – Case

Study of the European Union

Name of the conference: AIChE Annual Meeting

Type of event: Conference City of event: Atlanta, Date of event: 17/11/2014 Organising entity: AIChE

Lidija Cucek; Mariano Martín Martín; Ignacio E. Grossmann; Zdravko Kravanja.

6 Title of the work: Multi-Objective Biorefinery Network Synthesis at EU Level.

Name of the conference: 2nd International Congress on Energy Efficiency and Energy Related Materials

City of event: Cincinnati, Date of event: 16/10/2014 End date: 19/10/2014 Organising entity: AIChE

Lidija Cucek; Mariano Martín Martín; Ignacio E. Grossmann; Zdravko Kravanja.

7 Title of the work: Self-sufficient integrated algae based facility for diesel susbtitutes: FAEE and glycerol

ethers

Name of the conference: FOCAPD 2014

Type of event: ConferenceGeographical area: Non EU InternationalType of participation: PosterReasons for participation: Review before

acceptance

City of event: Seattle, United States of America

Date of event: 17/07/2014 Organising entity: AIChE

With external admission assessment committee: Yes

Type of contribution: Chapters of books

Verónica de la Cruz; Sara Hernández Navarro; Mariano Martín Martín; Ignacio E. Grossmann.







8 Title of the work: Integrating Glycerol to Methanol vs. Glycerol to Ethanol within the Production of Biodiesel

from Algae

Name of the conference: ESCAPE 2014

Type of event: Conference Geographical area: European Union

Type of participation: Speaker Reasons for participation: Review before

acceptance

City of event: Budapest, Hungary

Date of event: 15/06/2014 **End date:** 18/06/2014

Organising entity: Hungarian Chemical Society Type of entity: Associations and Groups

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Type of contribution: Chapters of books

Mariano Martín Martín; Ignacio E. Grossmann. Elseviewer,

9 Title of the work: Large-Scale Biorefinery Supply Network – Case Study of the European Union

Name of the conference: ESCAPE 2014

Type of event: Conference Geographical area: European Union
Type of participation: Speaker Reasons for participation: Review before

acceptance

City of event: Budapest, Hungary

Date of event: 15/06/2014 **End date:** 18/06/2014

Organising entity: Hungarian Chemical Society Type of entity: Associations and Groups

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Type of contribution: Chapters of books

Lidija Cucek; Mariano Martín Martín; Ignacio E. Grossmann; Zdravko Kravanja. Elseviewer,

10 Title of the work: Optimal Integration of a Concentrated Solar Plant Facility with a Biomass Based

Polygeneration

Name of the conference: ESCAPE 2014

Type of event: Conference Geographical area: European Union

Type of participation: Poster Reasons for participation: Review before

acceptance

City of event: Budapest, Hungary

Date of event: 15/06/2014 End date: 18/06/2014

Organising entity: Hungarian Chemical Society Type of entity: Associations and Groups

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Marta Vidal Otero; Lidia Martín; Mariano Martín Martín. Elseviewer,

11 Title of the work: Scale-up and Techno-economical study for the Production of Polyesters from Glycerol

Name of the conference: ESCAPE 2014

Type of event: Conference

Type of participation: Speaker

Geographical area: European Union

Reasons for participation: Review before

acceptance

City of event: Budapest, Hungary

Date of event: 15/06/2014 **End date:** 18/06/2014

Organising entity: Hungarian Chemical Society Type of entity: Associations and Groups







Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Laura Bueno Romo; Claudio Toro Aedo; Mariano Martín Martín. Elseviewer,

12 Title of the work: Biorefinery Supply Networks from the Regional to the Continental Level
Name of the conference: NAU#NO-STRU#NI SIMPOZIJ SA ME#UNARODNIM U#EŠ#EM
Type of event: Conference
Geographical area: Non EU International

Reasons for participation: Upon invitation

City of event: Tuzla, Serbia

Date of event: 14/11/2013

End date: 15/11/2013

Organising entity: University of Tuzla

Lidija Cucek; Mariano Martín Martín; Ignacio E. Grossmann; Zdravko Kravanja.

13 Title of the work: Optimal Simultaneous Production of Bio-Ibutene and Bioethanol from Switchgras

Name of the conference: AIChE annual meeting

Type of event: Conference Geographical area: Non EU International Type of participation: Speaker Reasons for participation: Review before

acceptance

City of event: San Francisco, United States of America

Date of event: 06/11/2013 Organising entity: AICHE

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Mariano Martín Martín; Ignacio E. Grossmann. Available online at:

http://www3.aiche.org/proceedings/Conference.aspx?ConfID=Annual-2013.

14 Title of the work: Simultaneous dynamic optimization and heat integration for the co-production of diesel

substitutes: Biodiesel (FAME & FAEE) and glycerol ethers from cooking or algae oil

Name of the conference: AIChE annual meeting

Type of event: Conference Geographical area: Non EU International Type of participation: Speaker Reasons for participation: Review before

acceptance

City of event: San Francisco, United States of America

Date of event: 06/11/2013 **Organising entity:** AICHE

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Ignacio E. Grossmann; Mariano Martín Martín. Available online at:

http://www3.aiche.org/proceedings/Conference.aspx?ConfID=Annual-2013.

15 Title of the work: Continental Biorefinery Supply Networks for the Production of Transportation Fuels

Name of the conference: 3rd International Congress on Sustainability Science & Engineering

Geographical area: Non EU International

Type of participation: Invited speaker Reasons for participation: Upon invitation

City of event: Cincinnati, United States of America

Date of event: 14/08/2013 Organising entity: AIChE

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Lidija Cucek; Mariano Martín Martín; Ignacio E. Grossmann; Zdravko Kravanja.







16 Title of the work: A methodology for simultaneous product and process design in the customer products

industry: The case study of the laundry business

Name of the conference: ESCAPE 23

Type of event: Conference Geographical area: International

Type of participation: Speaker Reasons for participation: Review before

acceptance

City of event: Laaperanta., Finland

Date of event: 09/06/2013 End date: 12/06/2013

Organising entity: Laaperanta University of Technology

City organizing entity: Laaperanta., Finland

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Type of contribution: Chapters of books

Alberto Martínez Bécares; Mariano Martín Martín. Available online at:

http://www.escape23.fi/preliminary-technical-programme>.

17 Title of the work: Multi-period Synthesis of a Biorefinery's Supply Networks

Name of the conference: ESCAPE 23

Type of event: Conference Geographical area: International

Type of participation: Poster Reasons for participation: Review before

acceptance

City of event: Laaperanta, Finland

Date of event: 09/06/2013 **End date:** 12/06/2013

Organising entity: Laaperanta university of Technology

City organizing entity: Laaperanta, Finland

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Type of contribution: Chapters of books

Lidija #u#ek; Mariano Martín Martín; Ignacio E. Grossmann; Zdravko Kravanja. Available online at:

http://www.escape23.fi/preliminary-technical-programme.

18 Title of the work: Thermochemical Biomass Processing

Name of the conference: Bioeconomy in Argentina: Present and Future

Type of event: Conference Geographical area: International

Type of participation: Speaker Reasons for participation: Upon invitation

City of event: Buenos Aires, Argentina

Date of event: 22/03/2013

Organising entity: Ministerio de Ciencia Tecnología Type of entity: Public Research Body

e Innovación Productiva

City organizing entity: Buenos Aires, Argentina With external admission assessment committee: No

Mariano Martín Martín.

19 Title of the work: Systematic synthesis of sustainable biorefineries: Integration of Alternative Technologies

Name of the conference: International Process Integration Jubilee.

Type of event: ConferenceGeographical area: Non EU InternationalType of participation: PosterReasons for participation: Review before

acceptance

City of event: Goteborg, Sweden Date of event: 18/03/2013







Organising entity: Chalmers University of

Technology

City organizing entity: Goteborg, Sweden

With external admission assessment committee: Yes

Mariano Martín Martín; Ignacio Grossmann.

20 Title of the work: Optimization Models of Water Networks and their Application to the Synthesis of Biofuel

Type of entity: University

Processes

Name of the conference: 3rd International Conference on Sustainable Chemical Product and Process

Engineering

Type of event: Conference Geographical area: Non EU International Type of participation: Invited speaker Reasons for participation: Upon invitation

City of event: Dalian, China

Date of event: 2013

Organising entity: AICHE Type of entity: Foundation

With external admission assessment committee: Yes Ignacio E. Grossmann; Mariano Martín; Linlin Yang.

21 Title of the work: Multi-Objective Optimization of Biorefinery Supply Networ

Name of the conference: AIChE annual meeting 2012

Type of event: Conference Geographical area: Non EU International Type of participation: Speaker Reasons for participation: Review before

acceptance

City of event: Pittsburgh, United States of America

Date of event: 01/11/2012

Organising entity: American Institute of Chemical Type of entity: Associations and Groups

Engineers

City organizing entity: Pittsburgh, United States of America

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Lidija Cucek; Mariano Martín Martín; Ignacio Grossmann; Zdravko Kravanja. Available online at: http://www.aiche.org/conferences/aiche-annual-meeting/2012>. ISBN 978-0-8169-1073-1

22 Title of the work: Simultaneous production of Liquid Fuels and Hydrogen from hybrid feedstock:

Switchgrass and Shale gas

Name of the conference: AIChE annual meeting 2012

Type of event: Conference Geographical area: Non EU International Type of participation: Speaker Reasons for participation: Review before

acceptance

City of event: Pittsburgh, United States of America

Date of event: 01/11/2012

Organising entity: American Institute of Chemical Type of entity: Associations and Groups

Engineers

City organizing entity: Pittsburgh, United States of America

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Mariano Martín Martín; Ignacio Grossmann. Available online at:

http://www.aiche.org/conferences/aiche-annual-meeting/2012>. ISBN 978-0-8169-1073-1

Title of the work: Integration of bioethanol in the production of biodiesel.

Name of the conference: AIChE annual meeting 2012

Type of event: Conference Geographical area: Non EU International







Type of participation: Speaker Reasons for participation: Review before

acceptance

City of event: Pittsburgh, United States of America

Date of event: 30/10/2012

Organising entity: American Institute of Chemical Type of entity: Associations and Groups

Engineers

City organizing entity: Pittsburgh, United States of America

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Kristen Severson; Mariano Martín Martín; Ignacio Grossmann. Available online at:

http://www.aiche.org/conferences/aiche-annual-meeting/2012. ISBN 978-0-8169-1073-1

24 Title of the work: Optimal simultaneous production of Hydrogen and liquid fuels from Glycerol: Integrating

the use of biodiesel byproducts

Name of the conference: AIChE annual meeting 2012

Type of event: Conference Geographical area: Non EU International

Type of participation: Speaker

City of event: Pittsburgh, United States of America

Date of event: 30/10/2012

Organising entity: American Institute of Chemical Type of entity: Associations and Groups

Engineers

City organizing entity: Pittsburgh, United States of America

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Mariano Martín Martín; Ignacio Grossmann. Available online at:

http://www.aiche.org/conferences/aiche-annual-meeting/2012. ISBN 978-0-8169-1073-1

25 Title of the work: Predicting modeling for the generation of microcapsules using CFD.

Name of the conference: AIChE annual meeting 2012

Type of event: Conference

Geographical area: Non EU International
Type of participation: Speaker

Reasons for participation: Review before

acceptance

City of event: Pittsburgh, United States of America

Date of event: 29/10/2012

Organising entity: American Institute of Chemical Type of entity: Associations and Groups

Engineers

City organizing entity: Pittsburgh, United States of America

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

José Nogareda; Mariano Martín Martín; Eva Martin del Valle; Miguel A Galán Serrano. Available online at:

http://www.aiche.org/conferences/aiche-annual-meeting/2012. ISBN 978-0-8169-1073-1

26 Title of the work: Synthesis of Optimally-Integrated Biomass and Bioenergy Supply Network

Name of the conference: Slovenian Chemical Days

Type of event: Conference Geographical area: National

Type of participation: Speaker Reasons for participation: Review before

acceptance

City of event: Portorož, Slovenia Date of event: 12/09/2012

Organising entity: University of Maribor Type of entity: University

City organizing entity: Maribor, Slovenia **Publication in conference proceedings:** Yes







With external admission assessment committee:

Yes

Lidija Cucek; Mariano Martín Martín; Ignacio Grossmann; Zdravko Kravanja. Available online at: http://skd.fkkt.uni-mb.si/. ISBN 978-961-248-354-8

27 Title of the work: BIOptPACK: A Library of models for Optimization of Biofuel Production Processes

Name of the conference: ESCAPE 22

Type of event: Conference

Geographical area: Non EU International

Type of participation: Speaker

Reasons for participation: Review before

acceptance

City of event: London, Inner London, United Kingdom

Date of event: 18/06/2012

Organising entity: University College London Type of entity: University

City organizing entity: London, Inner London, United Kingdom

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Mariano Martín Martín; Ignacio Grossmann. 30, pp. 16 - 20. Available online at:

http://www.icheme.org/escape22. ISBN 978-0-444-59519-5

28 Title of the work: Predicting modeling for the generation of microcapsules using CFD

Name of the conference: XII Mediterranean congress of Chemical Engineering.

Type of event: Conference Geographical area: European Union
Type of participation: Speaker Reasons for participation: Review before

acceptance

City of event: Barcelona, Catalonia, Spain

Date of event: 18/11/2011

Organising entity: EXPOQUIMIA Type of entity: Foundation

City organizing entity: Barcelona, Catalonia, Spain

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

José Nogareda; Mariano Martín Martín; Eva M. Martín del Valle; Miguel A Galán Serrano. Available online

at: http://www.ub.edu/congmedit/>. ISBN 978-84-615-4777-7

29 Title of the work: Simultaneous optimization, heat and water integration for biodiesel production from

cooking oil & algae

Name of the conference: XII Mediterranean congress of Chemical Engineering.

Type of event: Conference Geographical area: European Union

Type of participation: Speaker Reasons for participation: Review before

acceptance

City of event: Barcelona, Catalonia, Spain

Date of event: 18/11/2011

Organising entity: EXPOQUIMIA Type of entity: Foundation

City organizing entity: Barcelona, Catalonia, Spain

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Mariano Martín Martín; Ignacio Grossmann. Available online at: http://www.ub.edu/congmedit/>. ISBN

978-84-615-4777-7

30 Title of the work: Energy and Water Optimization in Biofuel Plants

Name of the conference: 6th Sino-US Joint conference of Chemical Engineering

Type of event: Conference Geographical area: Non EU International Type of participation: Invited speaker Reasons for participation: Upon invitation







City of event: Beijing, China Date of event: 08/11/2011

Organising entity: Chinese Academy of Sciences.

City organizing entity: Beijing, China

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Type of entity: Public Research Body

Ignacio Grossmann; Mariano Martín Martín. Available online at: http://ceb.dlut.edu.cn/a/xinwenzhong/xskytz/2011/0923/1594.html.

31 Title of the work: Process optimization of bioethanol production via Hydrolysis of Switchgrass

Name of the conference: AIChE annual meeting 2011

Type of event: Conference Geographical area: Non EU International Type of participation: Speaker Reasons for participation: Review before

acceptance

City of event: Minnesota, United States of America

Date of event: 20/10/2011

Organising entity: American Institute of Chemical Type of entity: Associations and Groups

Engineers

City organizing entity: Minnesota, United States of America

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Mariano Martín Martín; Ignacio Grossmann. Available online at:

http://www.aiche.org/conferences/aiche-annual-meeting/2011. ISBN 978-0-8169-1070-0

32 Title of the work: Energy optimization of Hydrogen production from biomass

Name of the conference: AIChE annual meeting 2011

Type of event: Conference Geographical area: Non EU International Type of participation: Speaker Reasons for participation: Review before

acceptance

City of event: Minnesota, United States of America

Date of event: 18/10/2011

Organising entity: American Institute of Chemical Type of entity: Associations and Groups

Engineers

City organizing entity: Minnesota, United States of America

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Mariano Martín Martín; Ignacio Grossmann. Available online at:

http://www.aiche.org/conferences/aiche-annual-meeting/2011>. ISBN 978-0-8169-1070-0

33 Title of the work: Energy optimization of lignocellulosic based diesel

Name of the conference: ESCAPE 21

Type of event: ConferenceGeographical area: European UnionType of participation: PosterReasons for participation: Review before

acceptance

City of event: Chalkidiki, Thessaloniki, Greece

Date of event: 30/05/2011

Organising entity: Aristotle University of Type of entity: University

Thessaloniki

City organizing entity: Thessaloniki, Greece

Publication in conference proceedings: Yes With external admission assessment committee:

Yes







Mariano Martín Martín; Ignacio Grossmann. 29, pp. 1698 - 1702. Available online at: http://www.escape-21.gr/. ISBN 978-0-444-53569-6

34 Title of the work: Energy, Water and Process Technologies Integration for the simultaneous production of

ethanol and food from the entire corn plant **Name of the conference:** ESCAPE 21

Type of event: Conference Geographical area: European Union

Type of participation: Poster Reasons for participation: Review before

acceptance

City of event: Chalkidiki, Thessaloniki, Greece

Date of event: 30/05/2011

Organising entity: Aristotle University of Type of entity: University

Thessaloniki

City organizing entity: Thessaloniki, Greece

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Lidija Cucek; Mariano Martín Martín; Ignacio Grossmann; Zdravko Kravanja. 29, pp. 2004 - 2008. Available online at: http://www.escape-21.gr. ISBN 978-0-444-53569-6

35 Title of the work: Optimization of water consumption in bioethanol plants

Name of the conference: AIChE annual meeting 2010

Type of event: Conference Geographical area: Non EU International Type of participation: Speaker Reasons for participation: Review before

acceptance

Type of entity: Associations and Groups

City of event: Salt Lake City, United States of America

Date of event: 12/11/2010

Organising entity: American Institute of Chemical

Engineers

.

City organizing entity: Salt Lake City, United States of America

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Mariano Martín Martín; Elvis Ahmetovic; Ignacio Grossmann. Available online at:

http://www.aiche.org/conferences/aiche-annual-meeting/2010>. ISBN 978-0-8169-1065-6

36 Title of the work: Energy optimization of Bioethanol production via Gasification of Switchgrass

Name of the conference: AIChE annual meeting 2010

Type of event: Conference Geographical area: Non EU International Type of participation: Speaker Reasons for participation: Review before

acceptance

City of event: Salt Lake City, United States of America

Date of event: 10/11/2010

Organising entity: American Institute of Chemical Type of entity: Associations and Groups

Engineers

City organizing entity: Salt Lake City, United States of America

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Mariano Martín Martín; Ignacio Grossmann. Available online at:

http://www.aiche.org/conferences/aiche-annual-meeting/2010>. ISBN 978-0-8169-1065-6

37 Title of the work: Superstructure optimization of Lignocellulosic Bioethanol plants

Name of the conference: ESCAPE 20

Type of event: Conference Geographical area: European Union







Type of participation: Speaker Reasons for participation: Review before

acceptance

Type of entity: University

City of event: Naples, Italy Date of event: 08/06/2010

Organising entity: CMCI Polytechnico de Milano

City organizing entity: Milano, Italy

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Mariano Martín Martín; Ignacio Grossmann. 28, pp. 943 - 948. Available online at:

http://www.aidic.it/escape20/>. ISBN 978-0-444-54298-4

38 Title of the work: Energy and Water Optimization in Biofuel Plants

Name of the conference: 2nd Intl. Symposium on Sustainable Chemical Product and Process Engineering

Type of event: Conference

Geographical area: Non EU International
Type of participation: Invited speaker

Reasons for participation: Upon invitation

City of event: HangZhou, China Date of event: 10/05/2010

Organising entity: Zhejiang University of Technology

City organizing entity: HangZhou, China

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Ignacio Grossmann; Mariano Martín Martín.

Title of the work: A Simple Heuristic for Reducing the Number of Scenarios in Two-stage Stochastic

Programming

Name of the conference: AICHE annual meeting 2009

Type of event: Conference Geographical area: Non EU International Type of participation: Speaker Reasons for participation: Review before

acceptance

City of event: Nashville, United States of America

Date of event: 12/11/2009

Organising entity: American Institute of Chemical Type of entity: Associations and Groups

Engineerts

City organizing entity: Nashville, United States of America

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Ramkumar Karuppiah; Mariano Martín Martín; Ignacio Grossmann. Available online at: https://aiche.com/excom/aiche/2009/webprogram/start.html. ISBN 978-0-8169-1058-6

40 Title of the work: Coalescence of Bubbles: A Case Study

Name of the conference: WCCE-8

Type of event: ConferenceGeographical area: Non EU InternationalType of participation: PosterReasons for participation: Review before

acceptance

City of event: Montreal, Canada Date of event: 25/08/2009

Organising entity: Canadian Society for chemical engineering

City organizing entity: Montreal, Canada

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Sandra Orvalho; Mariano Martín Martín; Maria Fujasova; Marek Ruzicka; Jiri Drahos. Available online at:

http://www.wcce8.org/index.html. ISBN 0-920804-44-6







41 Title of the work: Theoretical mass transfer in bubble columns operating with viscous fluids

Name of the conference: WCCE-8

Type of event: Conference Geographical area: Non EU International Type of participation: Speaker Reasons for participation: Review before

acceptance

City of event: Montreal, Canada Date of event: 25/08/2009

Organising entity: Canadian Society for chemical engineering

City organizing entity: Montreal, Canada

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Mariano Martín Martín; Elena Cachaza Gianzo; Elena Díaz Martín; Francisco J. Montes Sánchez; Miguel A.

Galán Serrano. Available online at: http://www.wcce8.org/index.html. ISBN 0-920804-44-6

42 Title of the work: Decreasing the surface tension of the liquid phase in a partially aerated bubble column:

Hold up and volumetric mass transfer coefficient variation

Name of the conference: WCCE-8

Type of event: Conference Geographical area: Non EU International Type of participation: Speaker Reasons for participation: Review before

acceptance

City of event: Montreal, Canada Date of event: 24/08/2009

Organising entity: Canadian Society for chemical engineering

City organizing entity: Montreal, Canada

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Elena Cachaza Gianzo; Mariano Martín Martín; Elena Díaz Martín; Francisco J. Montes Sánchez; Miguel A.

Galán Serrano. Available online at: http://www.wcce8.org/index.html. ISBN 0-920804-44-6

43 Title of the work: Aspects of coalescence of pairs of bubbles

Name of the conference: CHISA 2008

Type of event: Conference Geographical area: European Union
Type of participation: Poster Reasons for participation: Review before

acceptance

Type of entity: Associations and Groups

City of event: Prague, Czech Republic

Date of event: 25/08/2008

Organising entity: Czech society of chemical

engineers

City organizing entity: Prague, Czech Republic

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Sandra Orvalho; Mariano Martín Martín; Maria Fujasova; Marek Ruzicka; Jiri Drahos. pp. 879 - 879.

Available online at: http://www.chisa.cz/2008/>. ISBN 978-80-02-02050-9

44 Title of the work: On coalescence of pairs of bubbles

Name of the conference: CHISA 2007

Type of event: Conference Geographical area: National

Type of participation: Poster Reasons for participation: Review before

acceptance

City of event: Sumava, Czech Republic

Date of event: 17/10/2007





Type of entity: Associations and Groups



Organising entity: Czech society of chemical

engineers

City organizing entity: Prague, Czech Republic

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Sandra Orvalho; Mariano Martín Martín; Maria Fujasova; Marek Ruzicka; Jiri Drahos. pp. 204 - 204.

Available online at: http://www.chisa.cz/2007/>.

45 Title of the work: Energy Optimization of Corn-Based Bio-Ethanol Plants

Name of the conference: ECCE 6

Type of event: Conference Geographical area: European Union

Type of participation: Speaker Reasons for participation: Review before

acceptance

City of event: Copenhaguen, Denmark

Date of event: 20/09/2007

Organising entity: European Federation of Chemica Engineers

City organizing entity: Copenhaguen, Denmark

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Andreas Peschel; Ramkumar Karuppiah; Mariano Martín Martín; Ignacio Grossmann; Luca Zullo; Wade

Martinson. Available online at: http://www.ecce6.kt.dtu.dk/>. ISBN 978-87-91435-57-9

46 Title of the work: Effect of the impeller type on the break up of the bubbles in a stirred tank

Name of the conference: ECCE 6

Type of event: Conference Geographical area: European Union
Type of participation: Speaker Reasons for participation: Review before

acceptance

City of event: Copenhaguen, Denmark

Date of event: 17/09/2007

Organising entity: European Federation of Chemical Engineers

City organizing entity: Copenhaguen, Denmark

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Mariano Martín Martín; Francisco J. Montes Sánchez; Miguel A. Galán Serrano. Available online at:

http://www.ecce6.kt.dtu.dk/>. ISBN 978-87-91435-57-9

47 Title of the work: A Superstructure Optimization Approach for the Design of Corn-Based Ethanol Plants

Name of the conference: AIChE Annual Meeting 2006

Type of event: Conference Geographical area: Non EU International Type of participation: Speaker Reasons for participation: Review before

acceptance

City of event: San Francisco, United States of America

Date of event: 17/11/2006

Organising entity: American Institute of Chemical Type of entity: Associations and Groups

Engineers

City organizing entity: San Francisco, United States of America

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Andreas Peschel; Ramkumar Karuppiah; Mariano Martín Martín; Ignacio Grossmann; Luca Zullo; Wade

Martinson, ISBN 0-8169-1012-X







48 Title of the work: Stirred tanks: A Physical Explanation for the Exponents of Classical Empirical Mass

Transfer Equations

Name of the conference: AIChE annual meeting 2006

Type of event: Conference Geographical area: Non EU International Type of participation: Speaker Reasons for participation: Review before

acceptance

City of event: San Francisco, United States of America

Date of event: 16/11/2006

Organising entity: American institute of chemical engineers City organizing entity: San Francisco, United States of America

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Mariano Martín Martín; Francisco J. Montes; Miguel A. Galán. ISBN 0-8169-1012-X

49 Title of the work: Mass Transfer from Growing and Oscillating Rising Bubbles

Name of the conference: AICHE annual meeting 2006

Type of event: Conference Geographical area: Non EU International Type of participation: Speaker Reasons for participation: Review before

acceptance

City of event: San Francisco, United States of America

Date of event: 13/11/2006

Organising entity: American Institute of chemical Type of entity: Foundation

Engineers

City organizing entity: San Francisco, United States of America

Publication in conference proceedings: Yes

Mariano Martín Martín; Francisco J. Montes Sánchez; Miguel A. Galán Serrano. ISBN 0-8169-1012-X

50 Title of the work: Coalescence in bubble columns: Hydrodynamics and Mass transfer

Name of the conference: CHISA 2006

Type of event: Conference Geographical area: European Union
Type of participation: Speaker Reasons for participation: Review before

acceptance

Type of entity: Public Research Body

City of event: Prague, Praha, Czech Republic

Date of event: 28/08/2006

Organising entity: Czech society of chemical

engineering

City organizing entity: Prague, Praha, Czech Republic

Publication in conference proceedings: Yes With external admission assessment committee:

Yes

Mariano Martín Martín; Juan M. García; Francisco J. Montes Sánchez; Miguel A. Galán Serrano. pp. 686 -

687. Available online at: http://www.chisa.cz/2006/>. ISBN 80-86059-45-6

51 Title of the work: Hydrodynamics of Single and Multiple Bubbles Generated from a Sieve Plate

Name of the conference: X Medierranean Congress of Chemical Engineering

Type of event: Conference Geographical area: European Union
Type of participation: Speaker Reasons for participation: Review before

acceptance

City of event: Barcelona, Catalonia, Spain

Date of event: 16/11/2005

Organising entity: EXPOQUIMIA

City organizing entity: Barcelona, Catalonia, Spain Publication in conference proceedings: Yes







With external admission assessment committee:

Yes

Mariano Martín Martín; Juan M. García; Elena Díaz Martín; Francisco J. Montes Sánchez; Miguel A. Galán Serrano. Available online at: http://www2.ub.edu/10mediterraneo/>.

Works submitted to national or international seminars, workshops and/or courses

1 Title of the work: Perspectives of use of biomass a in the US and Spain: Bioethanol, Biodiesel and

advanced biomass uses

Name of the event: Reneseg

City of event: Copenhagen, Denmark

Date of event: 30/05/2015

Organising entity: Network Manager Position - VCO Network

Mariano Martín Martín; Ignacio Grossmann.

2 Title of the work: Mathematical methods for Process and Product Design

Name of the event: Internationalization of the University of Maribor

City of event: Maribor, Slovenia Date of event: 04/05/2015 End date: 08/05/2015

Organising entity: University of Maribor

Mariano Martín Martín.

3 Title of the work: Integrating Solar and Biomass for the production of Fuels and Power

Name of the event: Seminar Type of event: Seminar City of event: London, Date of event: 07/11/2014

Organising entity: Energy Institute UCL. London.

Martiano Martín Martín.

4 Title of the work: Integrating renewables (Wind, Solar and Biomass) for the production of Fuels and Power

Name of the event: Internationalization University of Maribor

Type of event: Workshop City of event: Marbo, Slovenia Date of event: 03/11/2014 End date: 05/11/2014

Organising entity: University of Maribor

5 Title of the work: Optimization of Biomass, Wind and Solar for the production of fuels and power

Type of event: Seminar

City of event: London, United Kingdom

Date of event: 11/07/2014

Organising entity: University College London

Mariano Martín Martín.

6 Title of the work: Process and product design: From Biofuels to consumer goods

Type of event: Seminar

City of event: Birmingham, United Kingdom

Date of event: 25/03/2014







Organising entity: University oF Birmingham

Mariano Martín Martín.

7 Title of the work: Glycerol as an interesting raw material: Byproduct integration

Name of the event: Seminar City of event: Maribor, Date of event: 29/01/2014

Organising entity: University of Maribor City organizing entity: Maribor, Slovenia

Mariano Martín Martín.

8 Title of the work: Termochemical biomass processing

Name of the event: ALCUENET City of event: San José, Costa Rica

Date of event: 09/10/2013

Organising entity: Government Type of entity: Public Research Body

9 Title of the work: Simultaneous process and product design: Biofuels and consumer goods

Name of the event: Seminar

City of event: Leeds, United Kingdom

Date of event: 23/05/2013

Organising entity: University of Leeds

Mariano Martín Martín.

10 Title of the work: First principle analysis and design of multiphase equipment.

Name of the event: Seminar Type of event: Seminar

Geographical area: European Union City of event: Leeds, United Kingdom

Date of event: 22/05/2013

Organising entity: University of Leeds

Mariano Martín Martín.

11 Title of the work: El papel del ingeniero químico y de Procesos para un mundo sostenible

Name of the event: Final Lecture Chemical Engineering. 2008-2013

City of event: Salamanca, Spain Date of event: 04/05/2013

Organising entity: Delegación Alumnos Ing. Químicos

12 Title of the work: TOWARDS INTEGRATION OF PROCESS AND PRODUCT DESIGN

Name of the event: Seminar Series

Type of event: Seminar

Geographical area: International City of event: Bahía Blanca, Argentina

Date of event: 18/03/2013 Organising entity: PLAPIQUI

City organizing entity: Bahía Blanca, Argentina

Mariano Martín Martín.





Reasons for participation: Upon invitation



13 Title of the work: PSE for sustainability Name of the event: Academic seminar

Type of event: Seminar

Geographical area: Non EU International

City of event: Concepción, Chile Date of event: 23/11/2012

Organising entity: Universidad de Concepción City organizing entity: Concepcion, Chile

Mariano Martín.

14 Title of the work: SYSTHEMATIC OPTIMAL DESIGN OF BIOFUEL PRODUCTION PROCESES

Name of the event: Workshop

Type of event: Workshop

Geographical area: Non EU International Reasons for participation: Upon invitation

City of event: Concepción, Chile Date of event: 22/11/2012 Organising entity: CIPA

Mariano Martín.

15 Title of the work: Optimization of process and product design

Name of the event: Industrial seminar

Type of event: Seminar

Geographical area: European Union Reasons for participation: Upon invitation

City of event: Newcastle Upon Tyne, United Kingdom

Date of event: 22/06/2012

Organising entity: P&G Type of entity: Technological Centre

City organizing entity: Newcastle Upon Tyne, United Kingdom

Mariano Martín.

16 Title of the work: Synthesis and optimization of biofuels production processes

Name of the event: Energy systems engineering Special Seminar

Type of event: Seminar

Geographical area: Non EU International Reasons for participation: Upon invitation

City of event: Pittsburgh, United States of America

Date of event: 20/04/2011

Organising entity: Carnegie Mellon University

Type of entity: University

City organizing entity: Pittsburgh, United States of America

Mariano Martín. Available online at: http://egon.cheme.cmu.edu/esi/seminars.html>.

17 Title of the work: Energy and Water consumption in 1st and 2nd Generation bioethanol production

processes

Name of the event: Academic Seminar

Type of event: Seminar

Geographical area: European Union Reasons for participation: Upon invitation

City of event: Maribor, Slovenia Date of event: 10/05/2010

Organising entity: University of Maribor Type of entity: University

City organizing entity: Maribor, Slovenia

Mariano Martín.







18 Title of the work: Modelling, Simulation & Optimization of Biochemical Processes.

Name of the event: Academic Seminar

Type of event: Seminar

Geographical area: European Union Reasons for participation: Upon invitation

Type of entity: University

City of event: Tarragona, Spain Date of event: 18/03/2010

Organising entity: Universitat Rovira i Virgili

City organizing entity: Tarragona, Spain

Mariano Martín.

19 Title of the work: Water and Energy Optimization of Biofuel

Name of the event: Energy Systems Initiative (ESI)

Type of event: Seminar

Geographical area: Non EU International

City of event: Pittsburgh, United States of America

Date of event: 07/03/2010

Organising entity: Carngie Mellon University

Type of entity: University

City organizing entity: Pittsburgh, United States of America

Mariano Martín. Available online at:

http://egon.cheme.cmu.edu/esi/docs/pdf/optimization_biofuels_martin.pdf.

20 Title of the work: Simulation & Optimization of Chemical Processes: From the micro scale to the macro

scale

Name of the event: Industrial Seminar

Type of event: Seminar

Geographical area: Non EU International Reasons for participation: Upon invitation

City of event: Cinncinati, United States of America

Date of event: 04/02/2010

Organising entity: P&G Type of entity: Business

City organizing entity: Cincinnati, United States of America

Mariano Martín.

21 Title of the work: Perspectives of use of biomass a in the US and Spain: Bioethanol, Biodiesel and

advanced biomass uses

Name of the event: Renewable Systems Engineering

City of event: Copenhagen, Denmark

Organising entity: Reneseng-607415 FP7-PEOPLE-2013-ITN







R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

1 Committee title: AICHE

Affiliation entity: American Institute Chemical Engineers

Start date: 2009

2 Committee title: UEFSDI

Primary (UNESCO code): 330311 - Industrial chemistry

Affiliation entity: Romanian Government

Organization of R&D activities

1 Title of the activity: AIChE Annual Meeting

Type of activity: Congress Geographical area: Non EU International

Convening entity: American Institute CHemical Type of entity: Foundation

Engineering

City convening entity: Salt Lake City, United States of America

Type of participation: Chairman

Start-End date: 08/11/2015 - 13/11/2015 **Duration:** 5 days

2 Title of the activity: 3rd International Conference on Sustainable Chemical Product and Process

Engineering

Type of activity: International Conference Geographical area: Non EU International

Convening entity: AICHE

City convening entity: Dalian, China **Type of participation:** Organiser

Start-End date: 27/05/2013 - 30/05/2013

3 Title of the activity: New trends in chemical engineering

Type of activity: Simposio internacional Geographical area: Non EU International

Type of entity: Foundation

City of event: Salamanca, Spain

Convening entity: Universidad de Salamanca Type of entity: University

City convening entity: Salamanca, Castile and León, Spain

Type of participation: Organiser

Start-End date: 21/02/2004 - 25/02/2004 **Duration:** 5 days

4 Title of the activity: Chair in ESCAPE/PSE conference

City convening entity: Copenhagen, Denmark

Type of participation: Chairman

Start date: 01/06/2015







R&D management

1 Name of the activity: Review Editor Frontiers in Process and Energy Systems

Performed tasks: Editor Start date: 04/2014

2 Name of the activity: Regional Editor Energy Research Journal.

Type of management: Group management

Performed tasks: Editorial Work

Entity: Editorial Type of entity: Business

Start date: 2014

3 Name of the activity: Associated editor Journal of Advanced Chemical Type of management: Management of R&D&I actions and projects

Performed tasks: Editorial work

Start date: 2011

Name of the activity: Subject editor Latin American Applied Research
 Type of management: Management of R&D&I actions and projects

Performed tasks: Editorial work Entity: República Argetina

Start date: 2011

Evaluation and revision of R&D projects and articles

1 Name of the activity: Referee

Performed tasks: Research Project Evaluator
Entity where activity was carried out: FONCYT

Entity where activity was carried out: FONCYT Type of entity: Public Research Body

Start date: 2015

2 Name of the activity: Book referee

Performed tasks: Referee

Entity where activity was carried out: Taylor and Type of entity: Business

Francis Editorial

Type of activity: Review of articles in scientific or technological journals

Access system: By public merit Geographical area: Non EU International

Start date: 2012

3 Name of the activity: Referee

Performed tasks: Research project evaluation

Entity where activity was carried out: UESFI Type of entity: State agency

City of entity: Romania
Frequency of the activity: 15
Geographical area: European Union

Start date: 2012







4 Name of the activity: Referee

Performed tasks: Research project evaluation

Entity where activity was carried out: GACR

City of entity: Czech Republic Frequency of the activity: 5

Geographical area: European Union

Start date: 2011

5 Name of the activity: Referee

Performed tasks: Research project evaluation

Entity where activity was carried out: Netherlands Type of entity: State agency

Organization for Scientific research

Type of activity: Referee R&D projects

Frequency of the activity: 1

Geographical area: European Union

Start date: 2011

6 Name of the activity: Referee

Performed tasks: Research project evaluation Entity where activity was carried out: Agencia

Nacional de Evaluación y Prospectiva

Frequency of the activity: 6 Geographical area: National

Start date: 2011

7 Name of the activity: Reviewer Performed tasks: Referee

Entity where activity was carried out: Journal Type of activity: Review of articles in scientific or

technological journals

Access system: By public merit

Start date: 2006

Type of entity: State agency

Type of entity: Government agency

Type of entity: Editorials
Frequency of the activity: 200

Geographical area: International

Other achievements

Stays in public or private R&D centres

1 Entity: University of Birmingham

City of entity: Birmingham, United Kingdom Start-End date: 16/02/2015 - 27/03/2015

Funding entity: Erasmus +

Name of programme: Erasmus Visiting Professor

Goals of the stay: Guest

Provable tasks: Teaching and Research

Type of entity: University

Duration: 1 month - 15 days

2 Entity: University of Leeds Type of entity: University

Faculty, institute or centre: School of Process, Environmental and Materials Engineering

City of entity: Leeds, United Kingdom

Start-End date: 12/03/2014 - 11/04/2014 **Duration:** 1 month

Funding entity: Erasmus







Name of programme: Erasmus Visiting Professor

Goals of the stay: Guest

3 Entity: Univ. Maribor Type of entity: University

Duration: 5 days

Duration: 5 days

Duration: 5 days

Faculty, institute or centre: Chemistry Technology

City of entity: Maribor, Slovenia

Start-End date: 27/01/2014 - 31/01/2014

Funding entity: Erasmus

Name of programme: Erasmus Visiting Professor

Goals of the stay: Guest

4 Entity: Univ. Maribor Type of entity: University

Faculty, institute or centre: Chemistry Technology

City of entity: Maribor, Slovenia

Start-End date: 28/01/2013 - 01/03/2013

Funding entity: Erasmus

Name of programme: Erasmus Visiting Professor

Goals of the stay: Guest

5 Entity: Universidad de Maribor Type of entity: University

City of entity: Maribor, Slovenia

Start-End date: 23/01/2012 - 27/01/2012

Funding entity: Erasmus

Name of programme: Erasmus Visiting Professor

Goals of the stay: Guest

Provable tasks: Teaching within the ERASMUS program for visiting professors

6 Entity: Carnegie Mellon University Type of entity: University

Faculty, institute or centre: Chemical Engineering City of entity: Pittsburgh, United States of America

Start-End date: 01/05/2009 - 31/01/2011 **Duration:** 1 year - 9 months

Goals of the stay: Post-doctoral

Provable tasks: Biofuel production process optimal design

7 Entity: Procter and gamble Type of entity: Business

Faculty, institute or centre: Newcastle technical Centre

City of entity: Newcastle Upon Tyne, Northumberland and Tyne and Wear, United Kingdom

Goals of the stay: Post-doctoral

Provable tasks: Study of complex mutiphase reactors

8 Entity: Academy of Sciences of the Czech republic

City of entity: Prague, Czech Republic Start-End date: 11/06/2007 - 10/09/2007

Start-End date: 11/06/2007 - 10/09/2007 **Duration:** 3 months

Goals of the stay: Doctorate

Provable tasks: Bubble coalescence studies

9 Entity: Carnegie Mellon University

Type of entity: University

Faculty, institute or centre: Carnegie Institute of Technology

City of entity: Pittsburgh, United States of America

Start-End date: 29/08/2006 - 28/11/2006 **Duration:** 3 months







Goals of the stay: Doctorate

Provable tasks: Heat integration of corn based bioethanol plant

10 Entity: CIPA Universidad de Concepción Type of entity: University Centres and Structures

and Associated Bodies

City of entity: Concepción, Chile

Start date: 18/11/2012 Duration: 5 days

Goals of the stay: Guest

Provable tasks: Workshops and seminars in process design

Obtained grants and scholarships

1 Name of the grant: Erasmus visiting professors program

Aims: Teaching

Awarding entity: Universidad de Salamanca

Conferral date: 28/01/2013 Duration: 5 days

End date: 01/02/2013

Entity where activity was carried out: Universidad de Maribor

2 Name of the grant: USAL mobility awards under agreement

Aims: Workshop

Awarding entity: Universidad de Salamanca Type of entity: University

Conferral date: 18/11/2012 Duration: 5 days

End date: 23/11/2012

Entity where activity was carried out: Universidad de Concepción

3 Name of the grant: Erasmus visiting professors program

Aims: Teaching

Awarding entity: Universidad de Salamanca

Conferral date: 23/01/2012 Duration: 5 days

End date: 27/01/2012

Entity where activity was carried out: Universidad de Maribor

4 Name of the grant: Beca Contrato de postdoc MICINN - Fulbright

Aims: Post-doctoral

Awarding entity: MICINN Type of entity: Public Research Body

Conferral date: 22/12/2008 Duration: 1 year - 9 months

End date: 31/01/2011

Entity where activity was carried out: Carnegie Mellon University Faculty, institute or centre: Carnegie Institute of Technology

5 Name of the grant: Beca de Investigación en el programa de formación del profesorado universitario (FPU)

Aims: Pre-doctoral

Awarding entity: Ministerio de Educación, Política Type of entity: Public Research Body

Social y Deporte

Conferral date: 01/02/2004 Duration: 4 years

End date: 31/01/2008

Entity where activity was carried out: Universidad de Salamanca Faculty, institute or centre: Facultad de Ciencias Químicas







6 Name of the grant: Beca-colaboración

Aims: Ultimo año

Awarding entity: Ministerio de Educación, Política Type of entity: State agency

Social y Deporte

Conferral date: 2001 Duration: 9 months

End date: 2002

Entity where activity was carried out: Universidad de Salamanca Faculty, institute or centre: Facultad de Ciencias Químicas

7 Name of the grant: Erasmus Visiting Professor

Aims: Visiting professor

Awarding entity: Universidad de Salamanca

Type of entity: University

Conferral date: 2015

Duration: 1 month

Entity where activity was carried out: Univ. Birmingham

8 Name of the grant: Erasmus Visiting Professor

Aims: Visiting professor

Awarding entity: Universidad de Salamanca Type of entity: University

Conferral date: 2014 Duration: 5 days

Entity where activity was carried out: Univ. Maribor

9 Name of the grant: Erasmus Visiting Professor

Aims: Visiting professor

Awarding entity: Universidad de Salamanca Type of entity: University

Conferral date: 2014 Duration: 1 month

Entity where activity was carried out: Univ. Leeds

10 Name of the grant: FPU mobility award (Bolsa de viaje de las becas FPU)

Aims: Pre-doctoral

Awarding entity: Ministerio de Ciencia e Innovación. Type of entity: Public

Investigación

Conferral date: 2007 Duration: 3 months

Entity where activity was carried out: Academy of Sciences of the Czech republic

Faculty, institute or centre: Institute of chemical process fundamentals

11 Name of the grant: FPU mobility award (Bolsa de viaje de las becas FPU)

Aims: Pre-doctoral

Awarding entity: Ministerio de Ciencia e Innovación. Type of entity: Public

Investigación

Conferral date: 2006 Duration: 3 months

Entity where activity was carried out: Carnegie Mellon University

Scientific societies and professional associations

Name of the society: American Institute of Chemical Engineers City affiliation entity: New York, United States of America

Start date: 2009







Prizes, mentions and distinctions

1 **Description:** Certificate of excellence in Reviewing

Awarding entity: Editorial Elseviewer Type of entity: Associations and Groups

Conferral date: 2013

Recognition linked: Contribution to the quality of the journal

Description: ACS reviewer recognitionAwarding entity: Americal Chemical Society

Conferral date: 12/2011

3 Description: P&G award

Awarding entity: P&G Type of entity: Technological Centre

City awarding entity: Newcastle Upon Tyne, Northumberland and Tyne and Wear, United Kingdom

Conferral date: 2009

4 **Description:** Premio Extraordinario de Doctorado

Awarding entity: Universidad de Salamanca Type of entity: University

City awarding entity: Salamanca, Castile and León, Spain

Conferral date: 2008

5 Description: Accésit Premio Proyecto Fin de Carrera Mapfre

Awarding entity: Mapfre - Universidad de Type of entity: Foundation

Salamanca

City awarding entity: Salamanca, Castile and León, Spain

Conferral date: 2003

Other distinctions (professional or business career)

1 Description: Acreditación Titular (Associate Professor)

Awarding entity: Agencia Nacional de Evaluación de Type of entity: Agencia

la Calidad y Acreditación Conferral date: 24/10/2012

2 Description: Habilitación Contratado Doctor (Senior Lecturer)

Awarding entity: Agencia Nacional de Evaluación de Type of entity: Agencia

la Calidad y Acreditación

Conferral date: 14/07/2010

3 Description: Professorat Lector

Awarding entity: AGENCIA PER A LA QUALITAT DEL SISTEMA UNIVERSITARI DE CATALUNYA

Conferral date: 16/06/2010

4 Description: Habilitación Profesor Ayudante doctor

Awarding entity: Agencia Nacional de Evaluación de Type of entity: Public body

la Calidad y Acreditación Conferral date: 30/04/2008



