



## **Pedro Enrique Sánchez Jiménez**

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## Summary of CV

This section describes briefly a summary of your career in science, academic and research; the main scientific and technological achievements and goals in your line of research in the medium -and long- term. It also includes other important aspects or peculiarities.

I obtained my PhD degree in the University of Seville (2008) in kinetic studies of solid-state reactions. Then, I spent 2 years as a postdoctoral researcher in the University of Colorado at Boulder (USA) and 6 months at the IEMM at Montpellier. In 2011, I returned to the Institute of Materials Science of Seville obtaining successively a JAE-Doc and Juan de la Cierva (JdC) grants. In 2014, I obtained a 2-year Talentia PostDoc Fellowship in a highly competitive call, what allowed me to lead a joint research project in the University of Cambridge. Lastly, in 2015 I was awarded with a Ramón y Cajal fellowship again in a competitive process. Besides, I have stayed for shorter periods at the University of Sheffield and Ludwig Maximilian at Munich. Since my return to Spain, I have significantly contributed to the rapid growth of my research group (75 papers, 5 projects as PI, 2 PhD supervised). Along my career, I have gained expertise in a variety of fields related to solid-state reactions. I have worked extensively in solid-state kinetics, developing several novel methods of kinetic analysis that have produced a lasting impact in the field. (33 papers, averaging over 40 citations/paper, including 2 papers over 160 citations). As a result, I have established international collaborations and I have imparted 4 invited talks at international meetings. In addition, I led one research project and directed one thesis during my JdC period. Thanks to this expertise, we signed contracts with industrial partners, such as Eurokin Consortium, for whom a monograph of kinetic analysis was written, and Abengoa Solar. With the latter, I participated in several industrial projects, amounting over 500.000 euros, aiming to increase the operating temperature range of current solar thermal energy fluids. These works led to the construction of a pilot plant at the Solucar Complex, Seville. I have also a relevant production on environmental and energy related studies. I have explored the potential of the Calcium-Looping (CaL) process for postcombustion CO<sub>2</sub> capture aiming at reducing emissions at power plants, and as a Thermochemical Energy Storage System in Concentrated Solar Power Plants. This research line has been highly successful, with 32 amply cited papers published since 2013. The impact of this research is further evidenced by the H2020 EU Socratces project in which I actively participate. This project started in 2018 with a budget of 5M€ and was built upon the research done in our lab. Moreover, I am currently leading a Plan Nacional Retos Project in which I also act as coordinator of the 3 research groups involved. The project started in 2018 with an overall budget of about 350k €. In this field, I also have 1 patent and I am currently directing 1 PhD theses. The 2-year Talentia project I carried out as PI in Cambridge University was focused in the fabrication of energy-harvesting piezoelectric devices and led to 2 articles in very high impact journals. Finally, I have worked extensively on the preparation of ceramic materials by mechanochemistry and the innovative Flash Sintering (FS) technique, in collaboration with Prof Raj at the University of Boulder. In 2018 I published a seminal work in which we used for the first time FS to induce in one-step the synthesis and densification of nanostructured ceramics at low temperatures. This has tremendous industrial potential. In the topic, I have directed 1 PhD theses and produced 1 Book Chapter and 12 papers.



## General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

Número de Publicaciones 103

Antigüedad como doctor: 12 años Número de Tesis doctorales dirigidas: 2 (y 2 en progreso)

Citas totales: 3363 (Scopus) 4051 (Google Scholar)

Promedio de citas/año durante los últimos 5 años (2015-2020): 618 (Scopus)

Artículos con 100 o más citas: 4

Artículos ISI totales: 103 (80% en revistas Q1)

Artículos últimos 5 años (2015-2020): 43 (Scopus)

Índice h: 35 (Scopus) 39 (Google Scholar).

**Pedro Enrique Sánchez Jiménez**

Surname(s): **Sánchez Jiménez**  
 Name: **Pedro Enrique**  
 ScopusID: **8241597200**  
 ResearcherID: **J-3187-2016**  
 Date of birth: **16/07/1976**  
 Gender: **Male**  
 Nationality: **Spain**  
 Contact province: **Seville**  
 Contact address: **Instituto de Ciencia de Materiales de Sevilla**  
 Rest of contact address: **Americo Vespucio 49**  
 Postcode: **41092**  
 Contact country: **Spain**  
 Contact aut. region/reg.: **Andalusia**  
 Contact city: **Sevilla**  
 Email: **pedro.enrique@icmse.csic.es**

**Current professional situation**

**Employing entity:** CSIC  
**Department:** Instituto de Ciencia de Materiales de Sevilla  
**Professional category:** Científico Titular  
**Start date:** 10/07/2020

**Previous positions and activities**

|          | <b>Employing entity</b>                              | <b>Professional category</b>  | <b>Start date</b> |
|----------|--|---|-------------------|
| <b>1</b> | Instituto de Ciencia de Materiales de Sevilla (ICMS) | Contratado Ramón y Cajal  | 01/09/2016        |
| <b>2</b> | Instituto de Ciencia de Materiales de Sevilla (ICMS) | Marie Curie-Talentia Postdoc Fellowship Program                             | 01/10/2015        |
| <b>3</b> | University of Cambridge                              | Marie Curie-Talentia Postdoc Fellowship Program                             | 01/10/2014        |
| <b>4</b> | Instituto de Ciencia de Materiales de Sevilla (ICMS) | Juan de la Cierva   | 20/12/2012        |
| <b>5</b> | Instituto de Ciencia de Materiales de Sevilla (ICMS) | Contrato Postdoc JAE-DOC  | 31/05/2011        |
| <b>6</b> | Institut Europeen des Membranes - CNRS - France      | Contratado Posdoc   | 14/10/2010        |
| <b>7</b> | University of Colorado at Boulder - USA              | Contratado Posdoctoral  | 01/06/2008        |
| <b>8</b> | Instituto de Ciencia de Materiales de Sevilla (ICMS) | Becario predoctoral Junta de Andalucía. Formación de Personal Investigador. | 01/11/2003        |



- 1** **Employing entity:** Instituto de Ciencia de Materiales de Sevilla (ICMS) **Type of entity:** Public Research Body  
**Professional category:** Contratado Ramón y Cajal  
**Start-End date:** 01/09/2016 - 09/07/2020 **Duration:** 4 years
- 2** **Employing entity:** Instituto de Ciencia de Materiales de Sevilla (ICMS) **Type of entity:** Public Research Body  
**Professional category:** Marie Curie-Talentia Postdoc Fellowship Program  
**Start-End date:** 01/10/2015 - 30/09/2016 **Duration:** 12 months
- 3** **Employing entity:** University of Cambridge  
**Professional category:** Marie Curie-Talentia Postdoc Fellowship Program  
**Start-End date:** 01/10/2014 - 30/09/2015
- 4** **Employing entity:** Instituto de Ciencia de Materiales de Sevilla (ICMS)  
**Professional category:** Juan de la Cierva  
**Start-End date:** 20/12/2012 - 30/09/2014
- 5** **Employing entity:** Instituto de Ciencia de Materiales de Sevilla (ICMS) **Type of entity:** Public Research Body  
**City employing entity:** INSTITUTO DE CIENCIA DE MATERIALES DE SEVILLA, Spain  
**Professional category:** Contrato Postdoc JAE-DOC  
**Start-End date:** 31/05/2011 - 20/12/2012
- 6** **Employing entity:** Institut Europeen des Membranes - CNRS - France  
**Department:** Departament de Multimaterieux  
**City employing entity:** Institut Europeen des Membranes de Montpellier, France  
**Professional category:** Contratado Posdoc  
**Start-End date:** 14/10/2010 - 31/05/2011 **Duration:** 6 months
- 7** **Employing entity:** University of Colorado at Boulder - USA  
**Department:** Mechanical Engineering  
**City employing entity:** Boulder, Colorado, United States of America  
**Professional category:** Contratado Posdoctoral  
**Start-End date:** 01/06/2008 - 31/01/2010 **Duration:** 20 months
- 8** **Employing entity:** Instituto de Ciencia de Materiales de Sevilla (ICMS) **Type of entity:** Public Research Body  
**City employing entity:** Instituto de Ciencia de Materiales de Sevilla,  
**Professional category:** Becario predoctoral Junta de Andalucía. Formación de Personal Investigador.  
**Start-End date:** 01/11/2003 - 31/10/2007 **Duration:** 4 years  
**Type of contract:** Grant-assisted student (pre or post-doctoral, others)



## Education

### University education

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

- 1 University degree:** Higher degree  
**Name of qualification:** Bioquímica  
**Degree awarding entity:** Universidad de Sevilla      **Type of entity:** University  
**Date of qualification:** 07/2001
- 2 University degree:** Higher degree  
**Name of qualification:** Licenciado en Química  
**Degree awarding entity:** Universidad de Sevilla      **Type of entity:** University  
**Date of qualification:** 07/1999

#### Doctorates

**Doctorate programme:** Química  
**Degree awarding entity:** UNIVERSIDAD DE SEVILLA. QUÍMICA INORGÁNICA  
**Date of degree:** 06/2008  
**Thesis title:** ESTABILIDAD TÉRMICA DE POLÍMEROS Y NANOCOMPUESTOS POLIMÉRICOS. PROPUESTA DE UNA NUEVA METODOLOGÍA DE ANÁLISIS CINÉTICO  
**Thesis director:** Pérez-Maqueda, Luis A.  
**Obtained qualification:** SOBRESALIENTE CUM LAUDE

### Language skills

| Language | Listening skills | Reading skills | Spoken interaction | Speaking skills | Writing skills |
|----------|------------------|----------------|--------------------|-----------------|----------------|
| English  | C2               | C2             | C2                 | C2              | C2             |

## Teaching experience

### General teaching experience

- 1 Type of teaching:** Official teaching  
**Name of the course:** Materiales Cerámicos y Nanotecnología  
**Type of programme:** Master's degree  
**University degree:** Máster Universitario en Ingeniería, Procesado y Caracterización de Materiales  
**Start date:** 11/06/2018      **End date:** 13/06/2018  
**Type of hours/ ECTS credits:** Credits  
**Hours/ECTS credits:** 1



**Entity:** Universitat Politècnica de Valencia  
**Faculty, institute or centre:** Escuela Politécnica Superior de Alcoy  
**City of entity:** Alcoy,

- 2** **Type of teaching:** Official teaching  
**Name of the course:** Física II  
**University degree:** Licenciado en Ciencias Químicas  
**Start date:** 2015 **End date:** 2017  
**Type of hours/ ECTS credits:** Credits  
**Hours/ECTS credits:** 12  
**Entity:** Universidad de Sevilla **Type of entity:** University  
**Faculty, institute or centre:** Facultad de Física

## Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** Síntesis y caracterización de materiales cerámicos no oxídicos obtenidos por descomposición de precursores poliméricos.  
**Type of project:** Doctoral thesis  
**Entity:** Universidad de Sevilla **Type of entity:** University  
**Student:** Cristina García Garrido  
**Date of reading:** 2017
- 2** **Project title:** Nanocomposites poliméricos conductores a base de grafeno.  
**Type of project:** Minor thesis  
**Co-director of thesis:** Luis Allan Pérez Maqueda  
**Entity:** Universidad de Sevilla **Type of entity:** University  
**Student:** Eva Gil González  
**Date of reading:** 2013
- 3** **Project title:** Preparación de materiales termoeléctricos tipo escuterudita mediante mecano-síntesis.  
**Type of project:** Minor thesis  
**Co-director of thesis:** Luis Perez Maqueda  
**Entity:** Universidad de Sevilla **Type of entity:** University  
**Student:** María del Rocio Rodríguez Laguna  
**Date of reading:** 2012
- 4** **Project title:** Mecano-síntesis y caracterización de los materiales multiferroicos nanoestructurados  $\text{Bi}_{1-x}\text{R}_x\text{FeO}_3$  (R = La, Y)  
**Type of project:** Doctoral thesis  
**Co-director of thesis:** Luis Allan Perez Maqueda  
**Entity:** Universidad de Sevilla **Type of entity:** University  
**Student:** ANTONIO PEREJÓN PAZO  
**Obtained qualification:** Apto Cum Laude  
**Date of reading:** 2012
- 5** **Project title:** Síntesis de Materiales no Oxídicos (PDCs) a partir de precursores poiméricos.  
**Type of project:** Minor thesis  
**Co-director of thesis:** Luis Allan Perez Maqueda  
**Entity:** Universidad de Sevilla **Type of entity:** University  
**Student:** Cristina García Garrido



Date of reading: 2011

## Scientific and technological experience

### Scientific or technological activities

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

- 1** **Name of the project:** Cerámicas en un flash: la nueva ruta para un procesado energética y medioambientalmente eficiente

**Type of project:** Basic research (including archaeological digs, etc) **Geographical area:** Regional

**Entity where project took place:** Instituto de Ciencia de Materiales de Sevilla (ICMS) **Type of entity:** Public Research Body

**Name principal investigator (PI, Co-PI....):** Pedro E. SÁNCHEZ JIMÉNEZ

**Nº of researchers:** 6

**Funding entity or bodies:** Consejería de Innovacion de la Junta de Andalucía

**Type of participation:** Principal investigator

**Name of the programme:** Incentivos a Proyectos de Investigación de Excelencia

**Code according to the funding entity:** 18-FR-1087

**Start-End date:** 01/01/2021 - 31/12/2022 **Duration:** 24 months

**Total amount:** 99,6 €
- 2** **Name of the project:** INTEGRACION DEL PROCESO CA-LOOPING EN CENTRALES DE ENERGIA SOLAR CONCENTRADA PARA EL ALMACENAMIENTO TERMO-QUIMICO DE ENERGIA

**Geographical area:** National

**Degree of contribution:** Scientific coordinator

**Entity where project took place:** Instituto de Ciencia de Materiales de Sevilla (ICMS) **Type of entity:** Public Research Body

**Name principal investigator (PI, Co-PI....):** Pedro E SÁNCHEZ JIMÉNEZ

**Funding entity or bodies:** MINISTERIO DE ECONOMIA Y COMPETITIVIDAD

**Type of participation:** Principal investigator

**Name of the programme:** RETOS DE LA SOCIEDAD

**Code according to the funding entity:** CTQ2017-83602-C2-1-R

**Start-End date:** 01/01/2018 - 31/12/2021

**Total amount:** 145.200 €
- 3** **Name of the project:** SOLar Calcium-looping integRAtion for Thermo-Chemical Energy Storage

**Type of project:** Demonstration, pilot projects, conceptual formulations and design of processes and services

**Entity where project took place:** Insituto de Ciencia de Materiales de Sevilla

**Funding entity or bodies:** RESEARCH & INNOVATION ACTION H2020

**Name of the programme:** COMPETITIVE LOW-CARBON ENERGY

**Code according to the funding entity:** SOCRATCES





**Start-End date:** 01/01/2018 - 31/12/2021

**Total amount:** 196 €

**4 Name of the project:** Solid State Reactions of Materials for Energy and the Environment

**Entity where project took place:** Instituto de Ciencia de Materiales de Sevilla **Type of entity:** State agency

**Name principal investigator (PI, Co-PI....):** Pedro E SÁNCHEZ JIMÉNEZ

**Nº of researchers:** 1

**Type of participation:** Principal investigator

**Name of the programme:** RAMÓN Y CAJAL

**Code according to the funding entity:** RYC-2014-15473

**Start-End date:** 01/09/2016 - 31/08/2021

**Total amount:** 40.000 €

**5 Name of the project:** Adquisición de Equipo de Análisis térmico de altas prestaciones

**Degree of contribution:** Researcher

**Entity where project took place:** Instituto de Ciencia de Materiales de Sevilla **Type of entity:** State agency

**Name principal investigator (PI, Co-PI....):** Pedro Enrique Sanchez Jimenez

**Nº of researchers:** 1

**Funding entity or bodies:**

Ministerio de Ciencia e Innovación

**Type of entity:** Body, others

**Name of the programme:** Infraestructuras y Equipamiento Científico-Técnico

**Code according to the funding entity:** EQC2019-005791-P

**Start-End date:** 2019 - 2020

**Duration:** 3 years

**Total amount:** 89,9 €

**6 Name of the project:** Almacenamiento Termoquímico Híbrido de Energía Solar Concentrada SOLRTEQH

**Entity where project took place:** Instituto de Ciencia de Materiales de Sevilla (ICMS) **Type of entity:** Public Research Body

**Name principal investigator (PI, Co-PI....):** Luis A. Pérez Maqueda; José M Criado Luque

**Funding entity or bodies:**

Ministerio de Economía y Competitividad

**Code according to the funding entity:** CTQ2014-52763-C2-1-R

**Start-End date:** 01/01/2015 - 31/12/2017

**Duration:** 3 years

**Total amount:** 82.280 €

**7 Name of the project:** Polymer-based piezoelectric nanogenerators for energy harvesting and sensor applications

**Entity where project took place:** University of Cambridge and ICMS

**Name principal investigator (PI, Co-PI....):** PEDRO E SÁNCHEZ JIMÉNEZ

**Funding entity or bodies:**

Marie Curie Action-Junta de Andalucía

**Type of participation:** Principal investigator

**Name of the programme:** Talenta PostDoc

**Start-End date:** 01/10/2014 - 30/09/2016

**Total amount:** 152.498,39 €



- 8** **Name of the project:** Preparación por molienda reactiva de nanocomposites de interés tecnológico.  
**Geographical area:** Regional  
**Degree of contribution:** Researcher  
**Entity where project took place:** Instituto de Ciencia de Materiales de Sevilla  
**Name principal investigator (PI, Co-PI....):** Luis A Perez Maqueda  
**Name of the programme:** Proyecto de Excelencia  
**Code according to the funding entity:** TEP-7858  
**Start-End date:** 2013 - 2016 **Duration:** 4 years  
**Total amount:** 198.739,55 €
- 9** **Name of the project:** Síntesis y caracterización de materiales cerámicos no oxídicos obtenidos por descomposición de precursores poliméricos.  
**Geographical area:** Regional  
**Entity where project took place:** Instituto de Ciencia de Materiales de Sevilla (ICMS) **Type of entity:** Public Research Body  
**Name principal investigator (PI, Co-PI....):** Pedro E. SÁNCHEZ JIMÉNEZ  
**Nº of researchers:** 3  
**Funding entity or bodies:** Junta de Andalucía **Type of entity:** Consejería de Innovación  
**City funding entity:** Sevilla, Andalusia, Spain  
**Type of participation:** Principal investigator  
**Name of the programme:** Incentivos a Proyectos de Investigación de Excelencia  
**Code according to the funding entity:** TEP 1900  
**Start-End date:** 2013 - 2014 **Duration:** 24 months  
**Total amount:** 11.760 €
- 10** **Name of the project:** Procesado de Cerámicas Avanzadas A partir de Precursores Poliméricos (PDC) por métodos de Control Inteligente de la Temperatura.  
**Geographical area:** National  
**Degree of contribution:** Researcher  
**Entity where project took place:** Instituto de Ciencia de Materiales de Sevilla (ICMS) **Type of entity:** Public Research Body  
**Name principal investigator (PI, Co-PI....):** Luis A Perez Maqueda  
**Name of the programme:** Ministerio de Innovación y Ciencia  
**Code according to the funding entity:** CTQ2011-27626  
**Start-End date:** 2011 - 2014 **Duration:** 3 years  
**Total amount:** 65.550 €
- 11** **Name of the project:** Mecanosíntesis de hidruros metálicos y perowskitas multiferróicas en un molino planetario de alta energía de molienda bajo presiones elevadas.  
**Geographical area:** Regional  
**Degree of contribution:** Researcher  
**Entity where project took place:** Instituto de Ciencia de Materiales de Sevilla (ICMS) **Type of entity:** Public Research Body  
**Name principal investigator (PI, Co-PI....):** Luis A Perez Maqueda  
**Funding entity or bodies:** Junta de Andalucía **Type of entity:** Proyecto de Excelencia  
**City funding entity:** Sevilla, Andalusia, Spain  
**Code according to the funding entity:** TEP-03002  
**Start-End date:** 2008 - 2011 **Duration:** 4 years  
**Total amount:** 197.668 €



- 12** **Name of the project:** Preparación de materiales multiferroicos por métodos mecanoquímicos y térmicos con control inteligente de temperatura.  
**Geographical area:** National  
**Degree of contribution:** Researcher  
**Entity where project took place:** Instituto de Ciencia de Materiales de Sevilla (ICMS) **Type of entity:** Public Research Body  
**Name principal investigator (PI, Co-PI....):** Luis A Perez Maqueda  
**Funding entity or bodies:**  
CENTRO DE ACUSTICA APLICADA Y EVALUACION NO DESTRUCTIVA **Type of entity:** Associations and Groups  
**Code according to the funding entity:** MAT2008-06619/MAT  
**Start-End date:** 2008 - 2011  
**Total amount:** 50.000 €
- 13** **Name of the project:** Unusual Stability of Amorphous Polymer Derived Ceramics at High Temperatures  
**Degree of contribution:** Researcher  
**Entity where project took place:** University of Colorado at Boulder  
**City of entity:** Boulder, United States of America  
**Name principal investigator (PI, Co-PI....):** Rishi Raj  
**Funding entity or bodies:**  
National Science Foundation  
**Name of the programme:** Ceramics Program of the Division of Materials Research  
**Code according to the funding entity:** Grant No: 0502781  
**Start date:** 2008
- 14** **Name of the project:** Síntesis de materiales avanzados nanoestructurados por "Mechanical Alloying" A  
**Geographical area:** Regional  
**Degree of contribution:** Researcher  
**Entity where project took place:** Instituto de Ciencia de Materiales de Sevilla  
**Funding entity or bodies:**  
Junta de Andalucía **Type of entity:** Gobierno Autonómico  
**City funding entity:** Sevilla, Andalusia, Spain  
**Name of the programme:** Proyecto Excelencia  
**Code according to the funding entity:** TEP 2248  
**Start date:** 15/04/2007 **Duration:** 3 years  
**Total amount:** 155.099,02 €
- 15** **Name of the project:** METODOS INTELIGENTES DE CONTROL DE LA TEMPERATURA EN EL PROCESADO DE MATERIALES: ESTABILIDAD TERMICA Y SINTERIZACION.  
**Geographical area:** National  
**Degree of contribution:** Researcher  
**Entity where project took place:** Instituto de Ciencia de Materiales de Sevilla **Type of entity:** State agency  
**Name principal investigator (PI, Co-PI....):** Perez-Maqueda, Luis; LUIS A. PÉREZ MAQUEDA  
**Nº of researchers:** 7  
**Name of the programme:** OTROS PROGRAMAS DEL PLAN NACIONAL I+D, MINISTERIO DE CIENCIA Y TECNOLOGÍA  
**Code according to the funding entity:** MAT2004-02640  
**Start date:** 15/12/2004 **Duration:** 1095 days



**Total amount:** 95.910 €

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

- 1 Name of the project:** Literature review: Thermogravimetric Analysis  
**Type of project:** Basic research (including archaeological digs, etc)  
**Degree of contribution:** Researcher  
**Name principal investigator (PI, Co-PI....):** Luis Allan Pérez Maqueda  
**Nº of researchers:** 4  
**Funding entity or bodies:**  
VDI Technologiezentrum GMBH **Type of entity:** Associations and Groups  
**City funding entity:** Delft, Holland  
**Start date:** 01/04/2016 **Duration:** 12 months  
**Total amount:** 12.600 €
- 2 Name of the project:** Nuevo concepto de planta de torre con fluidos a muy alta temperatura y mayores rendimientos de ciclo respecto de las actuales  
**Degree of contribution:** Scientific coordinator  
**Name principal investigator (PI, Co-PI....):** PEDRO E SÁNCHEZ JIMÉNEZ  
**Funding entity or bodies:**  
Abengoa Research  
**Name of the programme:** Interconnecta Avanza2  
**Start date:** 2013 **Duration:** 2 years  
**Total amount:** 35.000 €
- 3 Name of the project:** Receptor cerámico de alta temperatura y presión para sistemas solares híbridos con turbina de gas y sistema de ciclo combinado CERSOL  
**Degree of contribution:** Researcher  
**Name principal investigator (PI, Co-PI....):** Luis A Perez Maqueda  
**Funding entity or bodies:**  
ABENGOA SOLAR NEW TECHNOLOGIES, S.A.  
**City funding entity:** Spain  
**Name of the programme:** Interconnecta Cersol  
**Start date:** 2013 **Duration:** 2 years  
**Total amount:** 230.000 €
- 4 Name of the project:** Estudios de degradación y desarrollo de nuevos HTF  
**Type of project:** Industrial research  
**Name principal investigator (PI, Co-PI....):** Luis A Perez Maqueda  
**Funding entity or bodies:**  
Proyectos e implantación de Tuberías, SA  
**Name of the programme:** Interconnecta  
**Start date:** 2012 **Duration:** 3 years  
**Total amount:** 264.000 €
- 5 Name of the project:** Neovil: Análisis de posibles usos de NFU-S en obra civil  
**Degree of contribution:** Researcher  
**Name principal investigator (PI, Co-PI....):** Jose M Criado Luque

**Funding entity or bodies:**

ACCIONA ENERGÍA, S.A.

**City funding entity:** Spain**Start date:** 2008**Duration:** 3 years**Total amount:** 99.793 €**6 Name of the project:** NANOCRISTALIZACIÓN DE CALCOGENUROS Y OXIDOS AMORFOS**Degree of contribution:** Researcher**Name principal investigator (PI, Co-PI...):** LUIS A. PÉREZ MAQUEDA**N° of researchers:** 4**Funding entity or bodies:**

CSIC-Academia de Ciencias Republica Checa

**Type of entity:** State agency**Code according to the funding entity:** 2006CZ0023**Start date:** 01/01/2007**Duration:** 730 days**7 Name of the project:** SÍNTESIS Y CARACTERIZACIÓN DE CATALIZADORES. ACTIVIDAD FOTOCATALÍTICA DE FOTOCATALIZADORES A BASE DE TIO<sub>2</sub> PARA APLICACIONES MEDIOAMBIENTALES**Degree of contribution:** Researcher**Name principal investigator (PI, Co-PI...):** JOSÉ MANUEL CRIADO LUQUE**N° of researchers:** 9**Start date:** 01/01/2005**Duration:** 729 days**Total amount:** 8.400 €

## Results

### Industrial and intellectual property

**Title registered industrial property:** Procedimiento termoquímico de almacenamiento de energía solar concentrada a partir de escoria de acería**Type of industrial property:** Patent of invention**Inventors/authors/obtainers:** Jose M Valverde; Juan Miranda Pizarro; Antonio Perejón Pazo; Luis A Pérez Maqueda; Pedro E Sanchez Jimenez**Entity holder of rights:** Universidad de Sevilla (60%) / Consejo Superior de Investigaciones Científicas (40%)**N° of application:** P201600314**Country of inscription:** Spain**Date of register:** 20/04/2016



## Scientific and technological activities

### Scientific production

#### Publications, scientific and technical documents

- 1 Beatriz Sarrion; Antonio Perejon; Pedro E Sanchez Jimenez; Nabil Amghar; Ricardo Chacartegui; José M Valverde; Luis Perez Maqueda. Calcination under low CO<sub>2</sub> pressure enhances the calcium Looping performance of limestone for thermochemical energy storage. CHEMICAL ENGINEERING JOURNAL. in press - 127922, 2021.  
**DOI:** 10.1016/j.cej.2020.127922

|   |   |
|---|---|
| <b>Type of production:</b> Scientific paper       | <b>Format:</b> Journal                                |
| <b>Impact source:</b> ISI                         | <b>Category:</b> Chemical Engineering (miscellaneous) |
| <b>Impact index in year of publication:</b> 6.735 | <b>Journal in the top 25%:</b> Yes                    |
| <b>Position of publication:</b> 7                 | <b>No. of journals in the cat.:</b> 137               |
- 2 Juan Arcenegui Troya; Pedro E Sanchez Jimenez; Antonio Perejon; Jose M Valverde; Ricardo Chacartegui; Luis Perez Maqueda. Calcium-Looping Performance of Biomineralized CaCO<sub>3</sub> for CO<sub>2</sub> Capture and Thermochemical Energy Storage. JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. 59 - 29, pp. 12924 - 12933. 2020.  
**DOI:** 10.1021/acs.iecr.9b05997

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|---|--|
| <b>Type of production:</b> Scientific paper       |  |
| <b>Impact source:</b> ISI                         | <b>Category:</b> Science Edition - ENGINEERING, CHEMICAL |
| <b>Impact index in year of publication:</b> 3.573 |  |
| <b>Position of publication:</b> 43                | <b>No. of journals in the cat.:</b> 143                  |
- 3 Eva Gil González; Antonio Perejon; Pedro E Sánchez Jiménez; Daniel Roman; Luis Pérez Maqueda. Control of experimental conditions in reaction flash-sintering of complex stoichiometry ceramics. CERAMICS INTERNATIONAL. 46 - 18, pp. 29413 - 29420. 2020.  
**DOI:** 10.1016/j.ceramint.2020.05.091

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|---|--|
| <b>Type of production:</b> Scientific paper       | <b>Format:</b> Journal   |
| <b>Impact source:</b> ISI                         | <b>Category:</b> Science Edition - MATERIALS SCIENCE, CERAMICS |
| <b>Impact index in year of publication:</b> 3.057 | <b>Journal in the top 25%:</b> Yes                             |
| <b>Position of publication:</b> 2                 | <b>No. of journals in the cat.:</b> 27                         |
- 4 Antonio Perejon; Pedro E Sanchez Jimenez; Luis Perez Maqueda; Jose M Criado. Development of a high-pressure thermobalance working under constant rate thermal analysis. JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. 142 - 3, pp. 1329 - 1334. 2020.  
**DOI:** 10.1007/s10973-020-09644-5

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|--|--|
| <b>Type of production:</b> Scientific paper      |  |
| <b>Impact source:</b> ISI                        | <b>Category:</b> Science Edition - CHEMISTRY, ANALYTICAL |
| <b>Impact index in year of publication:</b> 2.04 | <b>Journal in the top 25%:</b> No                        |
| <b>Position of publication:</b> 37               | <b>No. of journals in the cat.:</b> 75                   |

- 5** Eva Gil Gonzalez; Antonio Perejon; Pedro E Sánchez Jimenez; Rishi Raj; Luis A Pérez Maqueda. Processing and properties of Bi<sub>0.98</sub>R<sub>0.02</sub>FeO<sub>3</sub> (R = La, Sm, Y) ceramics flash sintered at ~650°C in <5 s. JOURNAL OF THE AMERICAN CERAMIC SOCIETY. 103 - 1, pp. 136 - 144. 2020.  
**DOI:** 10.1111/jace.16718  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 2.956  
**Position of publication:** 3  
**Source of citations:** SCOPUS  
**Format:** Journal  
**Category:** Science Edition - MATERIALS SCIENCE, CERAMICS  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 27  
**Citations:** 2
- 6** Jonatan Durán Martín; Pedro E Sánchez Jiménez; José M Valverde; Antonio Perejón; Pablo García Triñanes; Juan Arcenegui Troya; Luis A Pérez Maqueda. Role of particle size on the multicycle calcium looping activity of limestone for thermochemical energy storage. Journal of Advanced Research. 22, pp. 67 - 76. 2020.  
**DOI:** 10.1016/j.jare.2019.10.008  
**Type of production:** Scientific paper  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 6.992  
**Position of publication:** 9  
**Source of citations:** SCOPUS  
**Format:** Journal  
**Category:** Science Edition - MULTIDISCIPLINARY SCIENCES  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 71  
**Citations:** 5
- 7** Antonio Perejón; Eva Gil González; Pedro E Sanchez Jimenez; Anthony West; Luis A Pérez Maqueda. Electrical properties of bismuth ferrites: Bi<sub>2</sub>Fe<sub>4</sub>O<sub>9</sub> and Bi<sub>25</sub>FeO<sub>39</sub>. JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. 39, pp. 330 - 339. 2019.  
**DOI:** 10.1016/j.jeurceramsoc.2018.09.008  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 3.794  
**Position of publication:** 1  
**Source of citations:** SCOPUS  
**Format:** Journal  
**Category:** Science Edition - MATERIALS SCIENCE, CERAMICS  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 27  
**Citations:** 7
- 8** Pedro E Sánchez Jiménez; Carlos Ortiz; Jose M Valverde; Antonio Perejon; Luis A Perez Maqueda. High-Performance and Low-Cost Macroporous Calcium Oxide Based Materials for Thermochemical Energy Storage in Concentrated Solar Power Plants. APPLIED ENERGY. 235, pp. 543 - 552. 2019.  
**DOI:** 10.1016/j.apenergy.2018.10.131  
**Type of production:** Scientific paper  
**Impact source:** SCOPUS  
**Impact index in year of publication:** 7.9  
**Position of publication:** 8  
**Source of citations:** SCOPUS  
**Format:** Journal  
**Category:** Science Edition - ENERGY & FUELS  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 97  
**Citations:** 36
- 9** Luis Pérez Maqueda; Eva Gil González; Mary Anne Wassel; Shikhar Jha; Antonio Perejon; Harry Charambolous; John Okasinski; Pedro E Sánchez Jiménez; Thomas Tsakalakos. Insight into the BiFeO<sub>3</sub> flash sintering process by in-situ energy dispersive X-ray diffraction (ED-XRD). CERAMICS INTERNATIONAL. 45 - 2, pp. 2828 - 2834. 2019.  
**DOI:** 10.1016/j.ceramint.2018.07.293



**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 3.057

**Position of publication:** 2

**Source of citations:** SCOPUS

**Format:** Journal

**Category:** Science Edition - MATERIALS SCIENCE, CERAMICS

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 27

**Citations:** 13

- 10** B Azimi; Maryam Tahmasebpour; Pedro E Sanchez Jimenez; Antonio Perejon; José M Valverde. Multicycle CO<sub>2</sub> capture activity and fluidizability of Al-based synthesized CaO sorbents. CHEMICAL ENGINEERING JOURNAL. 358, pp. 679 - 690. 2019.

**DOI:** 10.1016/j.cej.2018.10.061

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 6.735

**Position of publication:** 7

**Source of citations:** SCOPUS

**Format:** Journal

**Category:** Chemical Engineering (miscellaneous)

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 137

**Citations:** 33

- 11** Antonio Perejon; Pedro E Sánchez Jimenez; Carlos Soria Hoyo; Jose M Valverde; Jose M Criado; Luis A Pérez Maqueda. Sample-Controlled analysis under high pressure for accelerated process studies. JOURNAL OF THE AMERICAN CERAMIC SOCIETY. 102 - 3, pp. 1338 - 1346. 2019.

**DOI:** 10.1111/jace.15960

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 2.956

**Position of publication:** 3

**Source of citations:** SCOPUS

**Format:** Journal

**Category:** Science Edition - MATERIALS SCIENCE, CERAMICS

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 27

**Citations:** 1

- 12** Monica Benitez Guerrero; José M Valderve; Pedro E Sanchez Jimenez; Antonio Perejon; Luis A Perez Maqueda. Calcium-Looping performance of mechanically modified Al<sub>2</sub>O<sub>3</sub>-CaO composites for energy storage and CO<sub>2</sub> capture. CHEMICAL ENGINEERING JOURNAL. 334, pp. 2343 - 2355. 2018.

**DOI:** 10.1016/j.cej.2017.11.183

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 6.735

**Position of publication:** 7

**Source of citations:** SCOPUS

**Category:** Science Edition - ENGINEERING, CHEMICAL

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 137

**Citations:** 43

- 13** Cristina García Garrido; Luis A Pérez Maqueda; José M Criado; Pedro E Sánchez Jiménez. Combined kinetic analysis of multistep processes of thermal decomposition of polydimethylsiloxane silicone. POLYMER. 153, pp. 558 - 564. 2018.

**DOI:** 10.1016/j.polymer.2018.08.045

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 3.483

**Position of publication:** 14

**Format:** Journal

**Category:** Science Edition - POLYMER SCIENCE

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 87



**Citations: 6**

- 14** Eva Gil Gonzalez; Antonio Perejon; Pedro E Sanchez-Jimenez; Santiago Medina; Luis A Perez Maqueda. Crystallization Kinetics of Nanocrystalline Materials by Combined X-ray Diffraction and Differential Scanning Calorimetry Experiments. CRYSTAL GROWTH & DESIGN. 18 - 5, pp. 3107 - 3116. 2018.  
**DOI:** 10.1021/acs.cgd.8b00241  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 3.972  
**Position of publication:** 6  
**Source of citations:** SCOPUS  
**Format:** Journal  
**Category:** Science Edition - CRYSTALLOGRAPHY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 26  
**Citations:** 7
- 15** Monica Benitez Guerrero; José M Valderve; Antonio Perejon; Pedro E Sanchez Jimenez; Luis A Perez Maqueda. Effect of milling mechanism on the CO<sub>2</sub> capture performance of limestone in the Calcium Looping process. CHEMICAL ENGINEERING JOURNAL. 346, pp. 549 - 556. 2018.  
**DOI:** 10.1016/j.cej.2018.03.146  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 6.735  
**Position of publication:** 7  
**Source of citations:** SCOPUS  
**Category:** Chemical Engineering (miscellaneous)  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 137  
**Citations:** 15
- 16** Enhancement of CO<sub>2</sub> Capture at Ca-Looping Conditions by Improving the Stability and Fluidizability of Al-based Synthesized CaO Sorbents. CHEMICAL ENGINEERING JOURNAL. in press, 2018.  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 6.735  
**Position of publication:** 3  
**Category:** Science Edition - ENGINEERING, ENVIRONMENTAL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 50
- 17** Monica Benitez Guerrero; José M Valderve; Antonio Perejon; Pedro E Sanchez Jimenez; Luis A Perez Maqueda. Low-cost Ca-based composites synthesized by biotemplate method for thermochemical energy storage of concentrated solar power. APPLIED ENERGY. 210, pp. 108 - 116. 2018.  
**DOI:** 10.1016/j.apenergy.2017.10.109  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 7.9  
**Position of publication:** 4  
**Source of citations:** SCOPUS  
**Category:** Science Edition - ENGINEERING, CHEMICAL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 137  
**Citations:** 41
- 18** Sonia Fereres; Cristina Prieto; Pau Giménez gavarell; Alfonso Rodríguez; Pedro E Sanchez Jimenez; Luis A Perez Maqueda. Molten Carbonate Salts for Advanced Solar Thermal Energy Power Plants: Cover Gas Effect on Fluid Thermal Stability. SOLAR ENERGY MATERIALS AND SOLAR CELLS. 188, pp. 119 - 126. 2018.  
**DOI:** 10.1016/j.solmat.2018.08.028  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 5.108  
**Format:** Journal  
**Category:** Science Edition - ENERGY & FUELS  
**Journal in the top 25%:** Yes

**Position of publication:** 17**No. of journals in the cat.:** 97**Source of citations:** SCOPUS**Citations:** 5

- 19** Eva Gil Gonzalez; Antonio Perejon; Pedro E Sanchez Jimenez; María Jesús Sayagues; Rishi Raj; Luis A Perez Maqueda; Rishi Raj. Phase-pure BiFeO<sub>3</sub> produced by reaction flash-sintering of Bi<sub>2</sub>O<sub>3</sub> and Fe<sub>2</sub>O<sub>3</sub>. JOURNAL OF MATERIALS CHEMISTRY A. 6 - 13, pp. 5356 - 5366. 2018.  
**DOI:** 10.1039/c7ta09239c  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 9.931  
**Position of publication:** 14  
**Source of citations:** SCOPUS  
**Format:** Journal  
**Category:** Science Edition - CHEMISTRY, PHYSICAL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 146  
**Citations:** 40
- 20** Beatriz Sarrion; Pedro E Sanchez Jimenez; Antonio Perejon; Jose M Valverde; Luis A Perez Maqueda. Pressure Effect on the Multicycle Activity of Natural Carbonates and a Ca/Zr Composite for Energy Storage of Concentrated Solar Power. ACS SUSTAINABLE CHEMISTRY AND ENGINEERING. 6 - 6, pp. 7849 - 7858. 2018.  
**DOI:** 10.1021/acssuschemeng.8b00981  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 6.14  
**Position of publication:** 10  
**Source of citations:** SCOPUS  
**Format:** Journal  
**Category:** Science Edition - ENGINEERING, CHEMICAL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 137  
**Citations:** 16
- 21** Beatriz Sarrion; Antonio Perejon; José M Valverde; Pedro E Sánchez Jiménez; Luis A Pérez Maqueda. Role of Calcium Looping conditions on the performance of natural and synthetic Ca-based materials for energy storage. JOURNAL OF CO<sub>2</sub> UTILIZATION. 28, pp. 378 - 384. 2018.  
**DOI:** 10.1016/j.jcou.2018.10.018  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 5.503  
**Position of publication:** 11  
**Source of citations:** SCOPUS  
**Format:** Journal  
**Category:** Chemical Engineering (miscellaneous)  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 137  
**Citations:** 25
- 22** Raoudha Yahyaoui; Pedro E Sánchez Jiménez; Luis A Pérez Maqueda; Kais Nahdi; José M Criado. Synthesis, characterization and combined kinetic analysis of thermal decomposition of Hydrotalcite (Mg<sub>6</sub>Al<sub>2</sub>(OH)<sub>16</sub>CO<sub>3</sub>·4H<sub>2</sub>O). THERMOCHIMICA ACTA. 667, pp. 177 - 184. 2018.  
**DOI:** 10.1016/j.tca.2018.07.025  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 2.189  
**Position of publication:** 37  
**Source of citations:** SCOPUS  
**Format:** Journal  
**Category:** Analytical Chemistry  
**No. of journals in the cat.:** 80  
**Citations:** 11
- 23** Antonio Perejon; Pedro E Sanchez Jimenez; Luis A Perez Maqueda; Jose M Criado. A Promising Approach to the Kinetics of Crystallization Processes: The Sample Controlled Thermal Analysis. JOURNAL OF THE AMERICAN CERAMIC SOCIETY. 100 - 3, pp. 1125 - 1133. 2017.

**DOI:** 10.1111/jace.14604

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 2.956

**Position of publication:** 3

**Source of citations:** SCOPUS

**Format:** Journal

**Category:** Science Edition - MATERIALS SCIENCE, CERAMICS

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 27

**Citations:** 7

- 24** Juan Miranda Pizarro; Antonio Perejon; José M Valverde; Luis A Perez Maqueda; Pedro Sanchez Jimenez. CO2 capture performance of Ca-Mg acetates at realistic calcium looping conditions. FUEL. 196, pp. 497 - 507. 2017.

**DOI:** 10.1016/j.fuel.2017.01.119

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 4.908

**Position of publication:** 13

**Source of citations:** SCOPUS

**Format:** Journal

**Category:** Science Edition - ENERGY & FUELS

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 137

**Citations:** 18

- 25** José M Valverde; Juan Miranda Pizarro; Antonio Perejon; Pedro Sanchez Jimenez; Luis A Perez Maqueda. Calcium-Looping performance of steel and blast furnace slags for thermochemical energy storage in concentrated solar power plants. JOURNAL OF CO2 UTILIZATION. 22, pp. 143 - 154. 2017.

**DOI:** 10.1016/j.jcou.2017.09.021

**Type of production:** Scientific paper

**Impact source:** SCOPUS

**Impact index in year of publication:** 5.503

**Position of publication:** 11

**Source of citations:** SCOPUS

**Format:** Journal

**Category:** engineering chemical

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 137

**Citations:** 14

- 26** Eva Gil Gonzalez; Antonio Perejon; Pedro E Sanchez Jimenez; Michael Hayward; Jose M Criado; María Jesús Sayagues. Characterization of mechanosynthesized Bi<sub>1-x</sub>SmxFeO<sub>3</sub> samples unencumbered by secondary phases or compositional inhomogeneity. JOURNAL OF ALLOYS AND COMPOUNDS. 711, pp. 541 - 551. 2017.

**DOI:** 10.1016/j.jallcom.2017.03.289

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 3.779

**Position of publication:** 4

**Source of citations:** SCOPUS

**Format:** Journal

**Category:** Science Edition - METALLURGY & METALLURGICAL ENGINEERING

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 75

**Citations:** 16

- 27** Jose M Valverde; Manuel Barea Lopez; Antonio Perejon; Pedro Sanchez Jimenez; Luis Perez Maqueda. Effect of thermal pretreatment and nanosilica addition on limestone performance at Calcium-Looping conditions for Thermochemical Energy Storage of Concentrated Solar Power. ENERGY & FUELS. 31 - 4, pp. 4226 - 4236. 2017.

**DOI:** 10.1021/acs.energyfuels.6b03364

**Type of production:** Scientific paper

**Impact source:** SCOPUS

**Impact index in year of publication:** 3.024

**Position of publication:** 36

**Format:** Journal

**Category:** Science Edition - ENERGY & FUELS

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 137

**Source of citations:** SCOPUS

**Citations:** 34

- 28** Luis A Perez Maqueda; Eva Gil Gonzalez; Antonio Perejon; Jean Marie Lebrun; Pedro E Sanchez Jimenez; Rishi Raj. Flash sintering of highly insulating nanostructured phase-pure BiFeO<sub>3</sub>. JOURNAL OF THE AMERICAN CERAMIC SOCIETY. 100 - 8, pp. 3365 - 3369. 2017.

**DOI:** 10.1111/jace.14990

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 2.956

**Position of publication:** 3

**Source of citations:** SCOPUS

**Format:** Journal

**Category:** Science Edition - MATERIALS SCIENCE, CERAMICS

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 27

**Citations:** 34

- 29** Antonio Perejon; Jose M Valverde; Juan Miranda Pizarro; Pedro E Sanchez Jimenez; Luis A Perez Maqueda. Large-Scale Storage of Concentrated Solar Power from Industrial Waste. ACS SUSTAINABLE CHEMISTRY AND ENGINEERING. 5 - 3, pp. 2265 - 2272. 2017.

**DOI:** 10.1021/acssuschemeng.6b02576

**Type of production:** Scientific paper

**Impact source:** SCOPUS

**Impact index in year of publication:** 6.14

**Position of publication:** 10

**Source of citations:** SCOPUS

**Format:** Journal

**Category:** Chemical Engineering (miscellaneous)

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 137

**Citations:** 11

- 30** Monica Benitez GUerrero; Beatriz Sarrion; Antonio Perejon; Pedro E Sánchez Jimenez; Luis A Perez Maqueda; José M Valverde. Large-scale high-temperature solar energy storage using natural minerals. SOLAR ENERGY MATERIALS AND SOLAR CELLS. 168, pp. 14 - 21. 2017.

**DOI:** 10.1016/j.solmat.2017.04.013

**Type of production:** Scientific paper

**Impact source:** SCOPUS

**Impact index in year of publication:** 5.018

**Position of publication:** 17

**Source of citations:** SCOPUS

**Format:** Journal

**Category:** Science Edition - ENERGY & FUELS

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 97

**Citations:** 48

- 31** Anuja Datta; Pedro Sanchez Jimenez; Rabih Al Rahal; Yonatan Calahorra; Canlin Ou; Suman-Lata Sahonta; Marco Fornari; Sohini Kar-Narayan. Lead-Free Polycrystalline Ferroelectric Nanowires with Enhanced Curie Temperature. ADVANCED FUNCTIONAL MATERIALS. 27 - 29, pp. 1701169. 2017.

**DOI:** 10.1002/adfm.201701169

**Type of production:** Scientific paper

**Impact source:** SCOPUS

**Impact index in year of publication:** 13.325

**Position of publication:** 9

**Source of citations:** SCOPUS

**Category:** Science Edition - NANOSCIENCE & NANOTECHNOLOGY

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 92

**Citations:** 6

- 32** Eduardo Donoso; María J Dianez; Antonio Perejon; Pedro E Sánchez Jimenez; Luis A Perez Maqueda; María J Sayagues; Jose M Criado. Microcalorimetry: A powerful tool for quantitative analysis of aging hardening response of Cu-Ni-Sn alloys. JOURNAL OF ALLOYS AND COMPOUNDS. 694, pp. 710 - 714. 2017.

**DOI:** 10.1016/j.jallcom.2016.10.060

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 3.779

**Position of publication:** 4

**Source of citations:** SCOPUS

**Format:** Journal

**Category:** Science Edition - METALLURGY & METALLURGICAL ENGINEERING

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 75

**Citations:** 4

- 33** Monica Benitez GUerrero; José M Valverde; Pedro E Sánchez Jimenez; Antonio Perejon; Luis A Perez Maqueda. Multicycle activity of natural CaCO<sub>3</sub> minerals for thermochemical energy storage in Concentrated Solar Power plants. SOLAR ENERGY. 153, pp. 188 - 199. 2017.

**DOI:** 10.1016/j.solener.2017.05.068

**Type of production:** Scientific paper

**Impact source:** SCOPUS

**Impact index in year of publication:** 4.374

**Position of publication:** 23

**Source of citations:** SCOPUS

**Format:** Journal

**Category:** Science Edition - ENERGY & FUELS

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 97

**Citations:** 43

- 34** Eva Gil Gonzalez; Antonio Perejon; Pedro E Sanchez Jimenez; Michael Hayward; Luis A Perez Maqueda. Preparation of ytterbium substituted BiFeO<sub>3</sub> multiferroics by mechanical activation. JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. 37 - 3, pp. 945 - 954. 2017.

**DOI:** 10.1016/j.jeurceramsoc.2016.09.014

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 3.794

**Position of publication:** 1

**Source of citations:** SCOPUS

**Format:** Journal

**Category:** Science Edition - MATERIALS SCIENCE, CERAMICS

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 27

**Citations:** 14

- 35** Monica Benitez Guerrero; Luis A Perez Maqueda; Ramon Artiaga; Pedro E Sanchez-Jimenez; Jose Pascual-Cosp. Structural and Chemical Characteristics of Sisal Fiber and Its Components: Effect of Washing and Grinding. JOURNAL OF NATURAL FIBERS. pp. 1 - 14. 2017.

**DOI:** 10.1080/15440478.2015.1137529

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 1.076

**Position of publication:** 9

**Source of citations:** SCOPUS

**Format:** Journal

**Category:** Science Edition - MATERIALS SCIENCE, TEXTILES

**No. of journals in the cat.:** 24

**Citations:** 12

- 36** Cristina Garcia Garrido; Pedro E Sanchez-Jimenez; Luis A Pérez Maqueda; Antonio Perejon; Jose M Criado. Combined TGA-MS kinetic analysis of multistep processes. Thermal decomposition and ceramification of polysilazane and polysiloxane preceramic polymers. PHYSICAL CHEMISTRY CHEMICAL PHYSICS. 18, pp. 29348 - 29360. 2016.

**DOI:** 10.1039/c6cp03677e

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 4.123

**Format:** Journal

**Category:** Science Edition - CHEMISTRY, PHYSICAL

**Journal in the top 25%:** Yes



**Position of publication:** 32

**No. of journals in the cat.:** 144

**Source of citations:** SCOPUS

**Citations:** 19

- 37** Antonio Perejon; Luis Perez Maqueda; Pedro E Sanchez Jimenez; Jose M Criado; Nataliya Murafa; Jan Subrt. Constant rate thermal analysis of a dehydrogenation reaction. RSC Advances. 6 - 84, pp. 81454 - 81460. 2016.

**DOI:** 10.1039/c6ra10157g

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** Chemistry (miscellaneous)

**Impact index in year of publication:** 3.289

**Journal in the top 25%:** No

**Position of publication:** 49

**No. of journals in the cat.:** 163

**Source of citations:** SCOPUS

**Citations:** 2

- 38** Antonio de la Calle; Jose M Valverde; Pedro E Sanchez-Jimenez; Antonio Perejon; Cristina Garcia Garrido; Luis A Pérez Maqueda. Effect of dolomite decomposition under CO<sub>2</sub> on its multicycle CO<sub>2</sub> capture behaviour under calcium looping conditions. PHYSICAL CHEMISTRY CHEMICAL PHYSICS. 18 - 24, pp. 16325 - 16336. 2016.

**DOI:** 10.1039/c6cp01149g

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** Science Edition - CHEMISTRY, PHYSICAL

**Impact index in year of publication:** 4.449

**Journal in the top 25%:** Yes

**Position of publication:** 32

**No. of journals in the cat.:** 144

**Source of citations:** SCOPUS

**Citations:** 10

- 39** Pedro E Sanchez-Jimenez; Jose M Valverde; Antonio Perejon; Antonio de la Calle; Santiago Medina; Luis A Perez Maqueda. Influence of Ball Milling on CaO Crystal Growth During Limestone and Dolomite Calcination: Effect on CO<sub>2</sub> Capture at Calcium Looping Conditions. CRYSTAL GROWTH & DESIGN. 16 - 12, pp. 7025 - 7036. 2016.

**DOI:** 10.1039/c6ra03210a

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** Science Edition - CRYSTALLOGRAPHY

**Impact index in year of publication:** 4.425

**Journal in the top 25%:** Yes

**Position of publication:** 3

**No. of journals in the cat.:** 26

**Source of citations:** SCOPUS

**Citations:** 21

- 40** Antonio Perejon; Pedro E Sanchez-Jimenez; Luis A Perez Maqueda; Jose M Criado. Magnesium hydride for energy storage applications: The kinetics of dehydrogenation under different working conditions. JOURNAL OF ALLOYS AND COMPOUNDS. 681, pp. 571 - 579. 2016.

**DOI:** 10.1016/j.jallcom.2016.04.191

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** Science Edition - METALLURGY & METALLURGICAL ENGINEERING

**Impact index in year of publication:** 3.133

**Journal in the top 25%:** Yes

**Position of publication:** 5

**No. of journals in the cat.:** 75

**Source of citations:** SCOPUS

**Citations:** 15

- 41** Beatriz Sarrión; José M Valverde; Antonio Perejón; Luis A Pérez Maqueda; Pedro E Sánchez Jiménez. On the multicycle activity of natural limestone/dolomite for cheap, efficient and non-toxic thermochemical energy storage of concentrated solar power. ENERGY TECHNOLOGY. 4 - 8, pp. 1013 - 1019. 2016.

**DOI:** 10.1002/ente.201600068

**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 2.786  
**Position of publication:** 35  
**Source of citations:** SCOPUS

**Format:** Journal  
**Category:** Science Edition - ENERGY & FUELS  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 88  
**Citations:** 46

- 42** Canlin Ou; Pedro E Sanchez-Jlmenez; Anuja Datta; Francesca Boughey; Richard Whiter; Surnan-Lata Sahonta; Sohini Kar-Narayan. Template-Assisted Hydrothermal Growth of Aligned Zinc Oxide Nanowires for Piezoelectric Energy Harvesting Applications. ACS APPLIED MATERIALS & INTERFACES. 8 - 22, pp. 13678 - 13683. 2016.

**DOI:** 10.1021/acsami.6b04041

**Type of production:** Scientific paper  
**Impact source:** ISI

**Impact index in year of publication:** 7.504  
**Position of publication:** 22

**Source of citations:** SCOPUS

**Format:** Journal  
**Category:** Science Edition - NANOSCIENCE & NANOTECHNOLOGY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 275  
**Citations:** 43

- 43** María J Dianez; Eduardo Donoso; María J Sayagues; Antonio Perejon; Pedro E Sánchez Jimenez; Luis A Perez Maqueda; Jose M Criado. The calorimetric analysis as a tool for studying the aging hardening mechanism of a Cu-10wt%Ni-5.5wt%Sn alloy. JOURNAL OF ALLOYS AND COMPOUNDS. 688, pp. 288 - 294. 2016.

**DOI:** 10.1016/j.jallcom.2016.07.021

**Type of production:** Scientific paper  
**Impact source:** ISI

**Impact index in year of publication:** 3.133  
**Position of publication:** 5

**Source of citations:** SCOPUS

**Format:** Journal  
**Category:** Science Edition - METALLURGY & METALLURGICAL ENGINEERING  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 75  
**Citations:** 20

- 44** Juan Miranda; Antonio Perejón; José M Valverde; Pedro Sánchez Jiménez; Luis A Pérez Maqueda. Use of steel slag for CO2 capture under realistic calcium-looping conditions. RSC Advances. 6 - 44, pp. 37656 - 37663. 2016.

**DOI:** 10.1039/c6ra03210a

**Type of production:** Scientific paper  
**Impact source:** ISI

**Impact index in year of publication:** 3.289  
**Position of publication:** 49

**Source of citations:** SCOPUS

**Format:** Journal  
**Category:** Science Edition - CHEMISTRY, MULTIDISCIPLINARY  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 163  
**Citations:** 18

- 45** Luis A Perez Maqueda; Jose M Criado; Pedro E Sanchez Jimenez; María Jesús Diánez. Applications of sample-controlled thermal analysis (SCTA) to kinetic analysis and synthesis of materials. JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. 120 - 1, pp. 45 - 51. 2015.

**DOI:** 10.1007/s10973-014-4176-6

**Type of production:** Scientific paper  
**Impact source:** ISI

**Impact index in year of publication:** 2.04  
**Position of publication:** 37

**Source of citations:** SCOPUS

**Category:** Science Edition - CHEMISTRY, ANALYTICAL  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 75  
**Citations:** 7

- 46** José M Valverde; Pedro E Sanchez Jimenez; Luis A Perez Maqueda. Ca-looping for postcombustion CO<sub>2</sub> capture: A comparative analysis on the performances of dolomite and limestone. APPLIED ENERGY. 138, pp. 202 - 215. 2015.  
**DOI:** 10.1016/j.apenergy.2014.10.087  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 5.746  
**Position of publication:** 6  
**Source of citations:** SCOPUS  
**Category:** Science Edition - ENGINEERING, CHEMICAL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 135  
**Citations:** 80
- 47** José M Valverde; Pedro E Sanchez Jimenez; Luis A Perez Maqueda. Limestone calcination kinetics nearby equilibrium. CaO crystal 2 structure, sintering and reactivity. THE JOURNAL OF PHYSICAL CHEMISTRY C. 119 - 4, pp. 1623 - 1641. 2015.  
**DOI:** 10.1021/jp508745u  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 4.509  
**Position of publication:** 30  
**Source of citations:** SCOPUS  
**Category:** Science Edition - CHEMISTRY, PHYSICAL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 144  
**Citations:** 77
- 48** Pedro E Sanchez Jimenez; Antonio Perejon; Luis Perez Maqueda; Jose M Criado. New Insights on the Kinetic Analysis of Isothermal Data: The Independence of the Activation Energy from the Assumed Kinetic Model. ENERGY & FUELS. 29 - 1, pp. 392 - 397. 2015. Available on-line at: <DOI: 10.1021/ef502269r>.  
**DOI:** 10.1021/ef502269r  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 2.835  
**Position of publication:** 25  
**Source of citations:** SCOPUS  
**Category:** Science Edition - ENGINEERING, CHEMICAL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 135  
**Citations:** 8
- 49** Antonio Perejon Pazo; Pedro E Sanchez Jimenez; Rosalia Poyato Galan; Masó, Nahum; West, Anthony R.; Jose M Criado Luque; Luis A Perez Maqueda. Preparation of phase pure dense fine grained ceramics by conventional and spark plasma sintering of La-substituted BiFeO<sub>3</sub> nanoparticles. JOURNAL OF THE AMERICAN CERAMIC SOCIETY. 35 - 8, pp. 2283 - 2293. 2015. Available on-line at: <doi:10.1016/j.jeurceramsoc.2015.01.030>.  
**DOI:** 10.1016/j.jeurceramsoc.2015.01.030  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 2.787  
**Position of publication:** 2  
**Source of citations:** WOS  
**Category:** Science Edition - MATERIALS SCIENCE, CERAMICS  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 27  
**Citations:** 20
- 50** Antonio Perejón; Eva Gil Gonzalez; Pedro E. Sánchez Jiménez; José Criado; Luis A Pérez Maqueda. Structural, Optical, and Electrical Characterization of Yttrium-Substituted BiFeO<sub>3</sub> Ceramics Prepared by Mechanical Activation. INORGANIC CHEMISTRY. 54 - 20, pp. 9876 - 9884. 2015.



**DOI:** 10.1021/acs.inorgchem.5b01654

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 4.820

**Position of publication:** 4

**Source of citations:** SCOPUS

**Format:** Journal

**Category:** Science Edition - CHEMISTRY, INORGANIC & NUCLEAR

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 46

**Citations:** 16

- 51** Carlos Soria Hoyo; J.R. van Ommen; José M Valderve; Pedro E Sanchez Jimenez; Luis A Perez Maqueda; María Jesús Sayagués. Synthesis of a nanosilica supported CO<sub>2</sub> sorbent in a Fluidized Bed Reactor. APPLIED SURFACE SCIENCE. 328, pp. 548 - 553. 2015.

**DOI:** 10.1016/j.apsusc.2014.12.106

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 3.150

**Position of publication:** 27

**Source of citations:** SCOPUS

**Category:** applied physics

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 145

**Citations:** 11

- 52** Jose M Valverde; Pedro E Sanchez Jimenez; Luis A Perez Maqueda. Calcium-looping for post-combustion CO<sub>2</sub> capture. On the adverse effect of sorbent regeneration under CO<sub>2</sub>. APPLIED ENERGY. 126, pp. 161 - 71. 2014.

**DOI:** 10.1016/j.apenergy.2014.03.081

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 5.613

**Position of publication:** 6

**Source of citations:** SCOPUS

**Category:** Science Edition - ENGINEERING, CHEMICAL

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 133

**Citations:** 72

- 53** Monica Benitez Guerrero; Luis A Perez Maqueda; Pedro E Sanchez Jimenez; Jose Pascual Cosp. Characterization of thermally stable gamma alumina fibres biomimicking sisal. MICROPOROUS & MESOPOROUS MATERIALS. 185, pp. 167 - 178. 2014.

**DOI:** 10.1016/j.micromeso.2013.11.012

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 3.453

**Position of publication:** 7

**Source of citations:** SCOPUS

**Category:** Science Edition - CHEMISTRY, APPLIED

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 72

**Citations:** 16

- 54** Pedro E Sanchez Jimenez; Rocio Rodriguez Laguna; Luis A Perez Maqueda; Jose M Criado. Comments on "Pyrolysis kinetics of biomass from product information" (Applied Energy 110 (2013) 1-8) regarding the inability to obtain meaningful kinetic parameters from a single non-isothermal curve. APPLIED ENERGY. 125, pp. 132 - 135. 2014.

**DOI:** 10.1016/j.apenergy.2014.03.034

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 5.613

**Position of publication:** 6

**Category:** Science Edition - ENGINEERING, CHEMICAL

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 133

**Source of citations:** SCOPUS**Citations:** 9

- 55** Monica Benitez Guerrero; Jorge López Beceiro; Pedro E Sanchez Jimenez; Jose Pascual Cosp. Comparison of thermal behavior of natural and hot-washed sisal fibers based on their main components: Cellulose, xylan and lignin. TG-FTIR analysis of volatile products. THERMOCHIMICA ACTA. 581, pp. 70 - 86. 2014.

**DOI:** 10.1016/j.tca.2014.02.013**Type of production:** Scientific paper**Impact source:** ISI**Impact index in year of publication:** 2.184**Position of publication:** 33**Source of citations:** SCOPUS**Category:** Science Edition - CHEMISTRY, ANALYTICAL**Journal in the top 25%:** No**No. of journals in the cat.:** 74**Citations:** 56

- 56** Jose M Valverde; Pedro E Sanchez Jimenez; Luis Perez Maqueda. Effect of heat pretreatment/recarbonation in the Ca-looping process at realistic calcination conditions. ENERGY & FUELS. 28 - 6, pp. 4062 - 4067. 2014.

**DOI:** 10.1021/ef5007325**Type of production:** Scientific paper**Impact source:** ISI**Impact index in year of publication:** 2.790**Position of publication:** 21**Source of citations:** SCOPUS**Category:** Science Edition - ENGINEERING, CHEMICAL**Journal in the top 25%:** Yes**No. of journals in the cat.:** 135**Citations:** 22

- 57** Jose M Valverde; Pedro E Sanchez Jimenez; Luis A Perez Maqueda. High and stable CO<sub>2</sub> capture capacity of natural limestone at Ca-looping conditions by heat pretreatment and recarbonation synergy. FUEL. 123, pp. 79 - 85. 2014.

**DOI:** 10.1016/j.fuel.2014.01.045**Type of production:** Scientific paper**Impact source:** ISI**Impact index in year of publication:** 3.520**Position of publication:** 13**Source of citations:** SCOPUS**Category:** Science Edition - ENGINEERING, CHEMICAL**Journal in the top 25%:** Yes**No. of journals in the cat.:** 135**Citations:** 42

- 58** Felix Carrasco; Jonathan Cailloux; Pedro E Sanchez Jimenez; Maria Luisa Maspoch. Improvement of the thermal stability of branched poly(lactic > acid) obtained by reactive extrusion Polymer Degradation and Stability. POLYMER DEGRADATION AND STABILITY. 104, pp. 40 - 49. 2014.

**DOI:** 10.1016/j.polymdegradstab.2014.03.026**Type of production:** Scientific paper**Impact source:** SCOPUS**Impact index in year of publication:** 3.163**Position of publication:** 17**Source of citations:** SCOPUS**Format:** Journal**Category:** Science Edition - POLYMER SCIENCE**Journal in the top 25%:** Yes**No. of journals in the cat.:** 82**Citations:** 21

- 59** Pedro E Sanchez Jimenez; Jose M Valverde; Luis A Perez Maqueda. Multicyclic conversion of limestone at Ca-looping conditions: The role of solid-state diffusion controlled carbonation. FUEL. 127, pp. 131 - 140. 2014.

**DOI:** 10.1016/j.fuel.2013.09.064**Type of production:** Scientific paper



**Impact source:** ISI

**Impact index in year of publication:** 3.520

**Position of publication:** 13

**Source of citations:** SCOPUS

**Category:** Science Edition - ENGINEERING, CHEMICAL

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 135

**Citations:** 24

- 60** Pedro E Sanchez Jimenez; Jose M Valverde; Luis A Perez Maqueda. Nanosilica supported CaO: A regenerable and mechanically hard CO<sub>2</sub> sorbent at Ca-looping conditions. APPLIED ENERGY. 118 - 1, pp. 92 - 99. 2014.

**DOI:** 10.1016/j.apenergy.2013.12.024

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 5.613

**Position of publication:** 6

**Source of citations:** SCOPUS

**Category:** Science Edition - ENGINEERING, CHEMICAL

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 135

**Citations:** 54

- 61** Jose M Valverde; Pedro E Sanchez Jimenez; Luis A Perez Maqueda. Relevant influence of limestone crystallinity on CO<sub>2</sub> capture in the Ca-looping technology at realistic calcination conditions. ENVIRONMENTAL SCIENCE & TECHNOLOGY. 48 - 16, pp. 9882 - 9889. 2014.

**DOI:** 10.1021/es5014505

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 5.330

**Position of publication:** 2

**Source of citations:** SCOPUS

**Format:** Journal

**Category:** Environmental Engineering

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 46

**Citations:** 27

- 62** Jose M Valverde; Pedro E Sanchez Jimenez; Luis A Perez Maqueda; M.A.S. Quintanilla; J. Pérez Vaquero. Role of crystal structure on CO<sub>2</sub> capture by limestone derived CaO subjected to carbonation/recarbonation/calcination cycles at Ca-looping conditions. APPLIED ENERGY. 125, pp. 264 - 275. 2014.

**DOI:** 10.1016/j.apenergy.2014.03.065

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 5.613

**Position of publication:** 6

**Source of citations:** SCOPUS

**Category:** Science Edition - ENGINEERING, CHEMICAL

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 133

**Citations:** 39

- 63** Jose M Valverde; Pedro E Sanchez Jimenez; Luis A Perez Maqueda. Role of precalcination and regeneration conditions on postcombustion CO<sub>2</sub> capture in the Ca-looping technology. APPLIED ENERGY. 136, pp. 347 - 356. 2014.

**DOI:** 10.1016/j.apenergy.2014.09.052

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 5.613

**Position of publication:** 6

**Source of citations:** SCOPUS

**Category:** Science Edition - ENGINEERING, CHEMICAL

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 133

**Citations:** 36

- 64** Luis Perez Maqueda; Pedro E Sanchez Jimenez; Antonio Perejón; Cristina García Garrido; José M Criado. Scission kinetic model for the prediction of polymer pyrolysis curves from chain structure. POLYMER TESTING. 37, pp. 1 - 5. 2014.  
**DOI:** 10.1016/j.polymertesting.2014.04.004  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 2.240  
**Position of publication:** 2  
**Source of citations:** WOS  
**Category:** Science Edition - MATERIALS SCIENCE, CHARACTERIZATION & TESTING  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 33  
**Citations:** 11
- 65** Antonio Perejon; Pedro E Sanchez Jimenez; Luis A Perez Maqueda; Jose M Criado; Julio Romero de Paz; Regino Saez Puche; Nahum Masó; Anthony West. Single phase, electrically insulating, multiferroic La-substituted BiFeO<sub>3</sub> prepared by mechanosynthesis. JOURNAL OF MATERIALS CHEMISTRY C. 2 - 39, pp. 8398 - 8411. 2014.  
**DOI:** 10.1039/c4tc01426j  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 4.696  
**Position of publication:** 33  
**Source of citations:** SCOPUS  
**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 260  
**Citations:** 38
- 66** Qi-Long Yan; Svatopluk Zeman; Pedro Sanchez Jimenez; Feng-Qi Zhao; Luis A Pérez Maqueda; Jiri Malek. The effect of polymer matrices on the thermal hazard properties of RDX-based PBXs by using model-free and combined kinetic analysis. JOURNAL OF HAZARDOUS MATERIALS. 271, pp. 185 - 195. 2014.  
**DOI:** 10.1016/j.jhazmat.2014.02.019  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 4.529  
**Position of publication:** 5  
**Source of citations:** SCOPUS  
**Format:** Journal  
**Category:** Environmental Engineering  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 47  
**Citations:** 25
- 67** Qilong Yan; Svatopuk Zeman; Pedro E Sanchez Jlmenez; Tonglai Zhang; Luis A Perez Maqueda; Ahmed Elbeih. The mitigation effect of synthetic polymers on initiation reactivity of CL-20: Physical models and chemical pathways of thermolysis. THE JOURNAL OF PHYSICAL CHEMISTRY C. 118 - 40, pp. 22881 - 22895. 2014.  
**DOI:** 10.1021/jp505955n  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 4.772  
**Position of publication:** 28  
**Source of citations:** SCOPUS  
**Category:** Science Edition - CHEMISTRY, PHYSICAL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 135  
**Citations:** 33
- 68** Antonio Perejon; Pedro E Sanchez Jlmenez; José M Criado; Luis A Perez Maqueda. Thermal Stability of Multiferroic BiFeO<sub>3</sub>: Kinetic Nature of the beta-gamma Transition and Peritectic Decomposition. THE JOURNAL OF PHYSICAL CHEMISTRY C. 118 - 45, pp. 26387 - 26395. 2014.  
**DOI:** 10.1021/jp507831j  
**Type of production:** Scientific paper



**Impact source:** ISI

**Impact index in year of publication:** 4.772

**Position of publication:** 29

**Source of citations:** SCOPUS

**Category:** Science Edition - CHEMISTRY, PHYSICAL

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 139

**Citations:** 32

- 69** Jose M Valverde; Pedro E Sanchez Jimenez; Antonio Perejon. CO<sub>2</sub> multicyclic capture of pretreated/doped CaO in the Ca-looping process. Theory and experiments. PHYSICAL CHEMISTRY CHEMICAL PHYSICS. 15 - 28, pp. 11775 - 11793. 2013.

**DOI:** 10.1039/c3cp50480h

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 4.198

**Position of publication:** 32

**Source of citations:** SCOPUS

**Category:** Science Edition - CHEMISTRY, PHYSICAL

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 135

**Citations:** 31

- 70** Pedro Sanchez Jimenez; Luis Perez Maqueda; Antonio Perejon; Jose M Criado. Clarifications regarding the use of model-fitting methods of kinetic analysis for determining the activation energy from a single non-isothermal curve. CHEMISTRY CENTRAL JOURNAL. 7 - 1, pp. 25. 2013.

**DOI:** 10.1186/1752-153X-7-25

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 1.312

**Source of citations:** SCOPUS

**Category:** chemistry multidisciplinary

**Journal in the top 25%:** No

**Citations:** 16

- 71** Pedro E Sanchez Jimenez; Luis A Perez Maqueda; Antonio Perejon Pazo; Jose M Criado Luque. Comments on "thermal decomposition of pyridoxine: An evolved gas analysis-ion attachment mass spectrometry study". about the application of model-fitting methods of kinetic analysis to single non-isothermal curves. RAPID COMMUNICATIONS IN MASS SPECTROMETRY. 3 - 27, pp. 500 - 502. 2013.

**DOI:** 10.1002/rcm.6472

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 2.509

**Position of publication:** 28

**Category:** Analytical Chemistry

**Journal in the top 25%:** No

**No. of journals in the cat.:** 75

- 72** Jose M Valverde; Pedro E Sanchez Jimenez; Antonio Perejon; Luis Perez Maqueda. Constant rate thermal analysis for enhancing the long-term CO<sub>2</sub> capture of CaO at Ca-looping conditions. APPLIED ENERGY. 108, pp. 108 - 120. 2013.

**DOI:** 10.1016/j.apenergy.2013.03.013

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 5.261

**Position of publication:** 6

**Source of citations:** SCOPUS

**Category:** Science Edition - ENGINEERING, CHEMICAL

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 133

**Citations:** 50



- 73** Antonio Perejon; Nataliya Murafa; Pedro E Sanchez Jimenez; Jose M Criado; Jan Subrt; Maria Jesús Diánez; Luis A Perez Maqueda. Direct mechanosynthesis of pure BiFeO<sub>3</sub> perovskite nanoparticles: Reaction mechanism. JOURNAL OF MATERIALS CHEMISTRY C. 1 - 22, pp. 3551 - 3562. 2013.  
**DOI:** 10.1039/c3tc30446a  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 6.626  
**Position of publication:** 20  
**Source of citations:** WOS  
**Category:** Science Edition - CHEMISTRY, PHYSICAL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 136  
**Citations:** 37
- 74** Antonio Perejon Pazo; Masó, Nahum; West, Anthony R.; Pedro E Sanchez Jimenez; Rosalia Poyato Galan; Jose M Criado Luque; Luis A Perez Maqueda. Electrical Properties of Stoichiometric BiFeO<sub>3</sub> Prepared by Mechanosynthesis with Either Conventional or Spark Plasma Sintering. JOURNAL OF THE AMERICAN CERAMIC SOCIETY. 96 - 4, pp. 1220 - 1227. 2013.  
**DOI:** 10.1111/jace.12186  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 2.428  
**Position of publication:** 1  
**Source of citations:** WOS  
**Category:** Science Edition - MATERIALS SCIENCE, CERAMICS  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 25  
**Citations:** 45
- 75** Felix Carrasco; Luis Perez Maqueda; Pedro E Sanchez Jimenez; Orlando Santana; Maria Luisa Maspocho. Enhanced general analytical equation for the kinetics of the thermal degradation of poly(lactic acid) driven by random scission. POLYMER TESTING. 32 - 5, pp. 937 - 945. 2013.  
**DOI:** 10.1016/j.polymeresting.2013.04.013  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 1.816  
**Position of publication:** 2  
**Source of citations:** SCOPUS  
**Category:** Science Edition - MATERIALS SCIENCE, CHARACTERIZATION & TESTING  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 33  
**Citations:** 31
- 76** Pedro E Sanchez Jimenez; Luis A Perez Maqueda; Antonio Perejon Pazo; Jose M Criado Luque. Generalized master plots as a straightforward approach for determining the kinetic model: The case of cellulose pyrolysis. THERMOCHIMICA ACTA. 552, pp. 54 - 59. 2013.  
**DOI:** 10.1016/j.tca.2012.11.003  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 2.105  
**Position of publication:** 36  
**Source of citations:** SCOPUS  
**Category:** Analytical Chemistry  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 75  
**Citations:** 83
- 77** Luis A Perez Maqueda; Jose M Criado; Pedro E Sanchez Jimenez; Antonio Perejon. Kinetic studies in solid state reactions by sample-controlled methods and advanced analysis procedures. JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. 113 - 3, pp. 1447 - 1453. 2013.  
**DOI:** 10.1007/s10973-013-3114-3  
**Type of production:** Scientific paper



**Impact source:** ISI

**Impact index in year of publication:** 1.982

**Position of publication:** 37

**Source of citations:** SCOPUS

**Category:** Science Edition - CHEMISTRY, ANALYTICAL

**Journal in the top 25%:** No

**No. of journals in the cat.:** 75

**Citations:** 5

- 78** Pedro Sanchez Jimenez; Luis Perez Maqueda; Antonio Perejon; Jose M Criado. Limitations of model-fitting methods for kinetic analysis: Polystyrene thermal degradation. *RESOURCES, CONSERVATION & RECYCLING*. 74, pp. 75 - 81. 2013.

**DOI:** 10.1016/j.resconrec.2013.02.014

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 2.692

**Position of publication:** 15

**Source of citations:** SCOPUS

**Category:** Environmental Engineering

**Journal in the top 25%:** No

**No. of journals in the cat.:** 42

**Citations:** 23

- 79** Antonio Perejon Pazo; Pedro E Sanchez Jimenez; Eva Gil Gonzalez; Luis Perez Maqueda; José M Criado Luque. Pyrolysis kinetics of ethylene-propylene (EPM) and ethylene-propylene-diene (EPDM). *POLYMER DEGRADATION AND STABILITY*. 98 - 9, pp. 1571 - 1577. 2013.

**DOI:** 10.1016/j.polymdegradstab.2013.06.029

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 2.633

**Position of publication:** 23

**Source of citations:** SCOPUS

**Category:** Science Edition - POLYMER SCIENCE

**Journal in the top 25%:** No

**No. of journals in the cat.:** 82

**Citations:** 10

- 80** Jose M Valverde; Pedro E Sanchez Jimenez; Antonio Perejon; Luis Perez Maqueda. Role of looping-calcination conditions on self-reactivation of thermally pretreated CO<sub>2</sub> sorbents based on CaO. *ENERGY & FUELS*. 27 - 6, pp. 3373 - 3384. 2013.

**DOI:** 10.1021/ef400480j

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 2.733

**Position of publication:** 21

**Source of citations:** SCOPUS

**Category:** Science Edition - ENGINEERING, CHEMICAL

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 133

**Citations:** 23

- 81** Pedro E Sanchez Jimenez; Luis A Perez Maqueda; Antonio Perejon Pazo; Jose M Criado Luque. Nanoclay nucleation effect in the thermal stabilization of a polymer nanocomposite: A kinetic mechanism change. *THE JOURNAL OF PHYSICAL CHEMISTRY C*. 116 - 21, pp. 11797 - 11807. 2012.

**DOI:** 10.1021/jp302466p

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 4.814

**Position of publication:** 28

**Source of citations:** SCOPUS

**Category:** Science Edition - CHEMISTRY, PHYSICAL

**Journal in the top 25%:** Yes

**No. of journals in the cat.:** 135

**Citations:** 71



- 82** Pedro E Sanchez Jimenez; Luis A Perez Maqueda; Antonio Perejon Pazo; Jose Pascual Cosp; Monica Benitez Guerrero; Jose M Criado Luque. An improved model for the kinetic description of the thermal degradation of cellulose. CELLULOSE. 18 - 6, pp. 1487 - 1498. 2011.  
**DOI:** 10.1007/s10570-011-9602-3  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 3.600  
**Position of publication:** 13  
**Source of citations:** SCOPUS  
**Category:** Science Edition - POLYMER SCIENCE  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 79  
**Citations:** 43
- 83** Pedro E Sanchez Jimenez; Luis A Perez Maqueda; Antonio Perejon Pazo; Jose M Criado Luque. Constant Rate Thermal Analysis for thermal stability studies of polymers. POLYMER DEGRADATION AND STABILITY. 96 - 5, pp. 974 - 981. 2011.  
**DOI:** 10.1016/j.polymdegradstab.2011.01.027  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 2.770  
**Position of publication:** 16  
**Source of citations:** SCOPUS  
**Category:** Science Edition - POLYMER SCIENCE  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 79  
**Citations:** 31
- 84** Antonio Perejon Pazo; Pedro E Sanchez Jimenez; Jose M Criado Luque; Luis A Perez Maqueda. Kinetic Analysis of complex Solid State Reactions. A new deconvolution procedure. JOURNAL OF PHYSICAL CHEMISTRY B. 115 - 8, pp. 1780 - 1791. 2011.  
**DOI:** 10.1021/jp110895z  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 3.696  
**Position of publication:** 32  
**Source of citations:** SCOPUS  
**Category:** Science Edition - CHEMISTRY, PHYSICAL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 134  
**Citations:** 196
- 85** PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; LUIS A. PÉREZ MAQUEDA; ANTONIO PEREJÓN PAZO; JOSÉ MANUEL CRIADO LUQUE. A new model for the kinetic analysis of thermal degradation of polymers driven by random scission. POLYMER DEGRADATION AND STABILITY. 95, pp. 733 - 739. 2010.  
**DOI:** 10.1016/j.polymdegradstab.2010.02.017  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 2.594  
**Position of publication:** 15  
**Source of citations:** WOS  
**Category:** Science Edition - POLYMER SCIENCE  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 79  
**Citations:** 99
- 86** PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; LUIS A. PÉREZ MAQUEDA; ANTONIO PEREJÓN PAZO; JOSÉ MANUEL CRIADO LUQUE. Generalized kinetic master plots for the thermal degradation of polymers following a random scission mechanism. JOURNAL OF PHYSICAL CHEMISTRY A. 114 - 30, pp. 7868 - 7876. 2010.  
**DOI:** 10.1021/jp103171h  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 2.732  
**Category:** physical chemistry  
**Journal in the top 25%:** No



**Position of publication:** 9**No. of journals in the cat.:** 33**Source of citations:** SCOPUS**Citations:** 58

- 87** Terauds-,Kalvis; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; Raj-,Rishi; Vakifahmetoglu-,Cekdar; Colombo-,Paolo. Giant piezoresistivity of polymer-derived ceramics at high temperatures. JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. 30 - 11, pp. 2203 - 2207. 2010.

**DOI:** 10.1016/j.jeurceramsoc.2010.02.024**Type of production:** Scientific paper**Impact source:** ISI**Category:** Science Edition - MATERIALS SCIENCE, CERAMICS**Impact index in year of publication:** 2.575**Journal in the top 25%:** Yes**Position of publication:** 1**No. of journals in the cat.:** 25**Source of citations:** SCOPUS**Citations:** 48

- 88** PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; ANTONIO PEREJÓN PAZO; JOSÉ MANUEL CRIADO LUQUE; MARÍA JESÚS DIÁNEZ MILLÁN; LUIS A. PÉREZ MAQUEDA. Kinetic model for thermal dehydrochlorination of poly(vinyl chloride). POLYMER. 51 - 17, pp. 3998 - 4007. 2010.

**DOI:** 10.1016/j.polymer.2010.06.020**Type of production:** Scientific paper**Impact source:** ISI**Category:** Science Edition - POLYMER SCIENCE**Impact index in year of publication:** 3.829**Journal in the top 25%:** Yes**Position of publication:** 9**No. of journals in the cat.:** 79**Source of citations:** SCOPUS**Citations:** 97

- 89** PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; Rishi-,Raj. Lithium insertion in polymer-derived silicon oxycarbide ceramics. JOURNAL OF THE AMERICAN CERAMIC SOCIETY. 93 - 4, pp. 1127 - 1135. 2010.

**DOI:** 10.1111/j.1551-2916.2009.03539.x**Type of production:** Scientific paper**Impact source:** ISI**Category:** Science Edition - MATERIALS SCIENCE, CERAMICS**Impact index in year of publication:** 2.169**Journal in the top 25%:** Yes**Position of publication:** 2**No. of journals in the cat.:** 25**Source of citations:** SCOPUS**Citations:** 61

- 90** PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; LUIS A. PÉREZ MAQUEDA; MARÍA JESÚS DIÁNEZ MILLÁN; ANTONIO PEREJÓN PAZO; JOSÉ MANUEL CRIADO LUQUE. Mechanochemical preparation of BaTiO<sub>3</sub>-Ni nanocomposites with high dielectric constant. COMPOSITE STRUCTURES. 92 - 9, pp. 2236 - 2240. 2010.

**DOI:** 10.1016/j.compstruct.2009.08.011**Type of production:** Scientific paper**Impact source:** ISI**Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES**Impact index in year of publication:** 2.036**Journal in the top 25%:** Yes**Position of publication:** 3**No. of journals in the cat.:** 24**Source of citations:** WOS**Citations:** 21



- 91** PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; ANTONIO PEREJÓN PAZO; JOSÉ MANUEL CRIADO LUQUE; Lopez-, J; Crespo-Amoros-, Jose Enrique; LUIS A. PÉREZ MAQUEDA. Quantitative characterization of multicomponent polymers by sample-controlled thermal analysis. ANALYTICAL CHEMISTRY. 82 - 21, pp. 8875 - 8880. 2010.  
**DOI:** 10.1021/ac101651g  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 5.874  
**Position of publication:** 3  
**Source of citations:** WOS  
**Category:** Science Edition - CHEMISTRY, ANALYTICAL  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 75  
**Citations:** 21
- 92** JOSE LUIS PEREZ RODRIGUEZ; Durán-, Adrian; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; Franquello-Zoffman, María Luisa; ANTONIO PEREJÓN PAZO; JOSÉ PASCUAL COSP; LUIS A. PÉREZ MAQUEDA. Study of the dehydroxylation-rehydroxylation of pyrophyllite. JOURNAL OF THE AMERICAN CERAMIC SOCIETY. 93 - 8, pp. 2392 - 2398. 2010.  
**DOI:** 10.1111/j.1551-2916.2010.03750.x  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 2.169  
**Position of publication:** 2  
**Source of citations:** WOS  
**Category:** Science Edition - MATERIALS SCIENCE, CERAMICS  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 27  
**Citations:** 13
- 93** PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; Downes-, John A.; Raj-, Rishi. Transient viscous flow during the evolution of a ceramic (Silicon carbonitride) from a polymer (polysilazane). JOURNAL OF THE AMERICAN CERAMIC SOCIETY. 93 - 9, pp. 2567 - 2570. 2010.  
**DOI:** 10.1021/jp103171h  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 2.169  
**Position of publication:** 2  
**Source of citations:** SCOPUS  
**Category:** Science Edition - MATERIALS SCIENCE, CERAMICS  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 27  
**Citations:** 10
- 94** PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; LUIS A. PÉREZ MAQUEDA; ANTONIO PEREJÓN PAZO; JOSÉ MANUEL CRIADO LUQUE. Combined kinetic analysis of thermal degradation of polymeric materials under any thermal pathway. POLYMER DEGRADATION AND STABILITY. 94 - 11, pp. 2079 - 2085. 2009.  
**DOI:** 10.1016/j.polymdegradstab.2009.07.006  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 2.320  
**Position of publication:** 14  
**Source of citations:** WOS  
**Category:** Science Edition - POLYMER SCIENCE  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 73  
**Citations:** 75
- 95** JOSÉ MANUEL CRIADO LUQUE; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; LUIS A. PÉREZ MAQUEDA. Critical study of the isoconversional methods of kinetic analysis. JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. 92 - 1, pp. 199 - 203. 2008.  
**DOI:** 10.1007/s10973-007-8763-7  
**Type of production:** Scientific paper



**Impact source:** ISI  
**Impact index in year of publication:** 1.630  
**Position of publication:** 38  
**Source of citations:** WOS

**Category:** Analytical Chemistry  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 70  
**Citations:** 115

- 96** PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; JOSÉ MANUEL CRIADO LUQUE; LUIS A. PÉREZ MAQUEDA. Kissinger kinetic analysis of data obtained under different heating schedules. JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. 94 - 2, pp. 427 - 432. 2008.

**DOI:** 10.1007/s10973-008-9200-2

**Type of production:** Scientific paper

**Impact source:** ISI  
**Impact index in year of publication:** 1.630  
**Position of publication:** 38

**Category:** Analytical Chemistry  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 70

**Source of citations:** SCOPUS

**Citations:** 78

- 97** Balek-,V.; Benes-,M; Subrt-,J; JOSE LUIS PEREZ RODRIGUEZ; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; LUIS A. PÉREZ MAQUEDA; JOSÉ PASCUAL COSP. Thermal characterization of montmorillonite clays saturated with various cations. JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. 92 - 1, pp. 191 - 197. 2008.

**DOI:** 10.1007/s10973-007-8761-9

**Type of production:** Scientific paper

**Impact source:** ISI  
**Impact index in year of publication:** 1.630  
**Position of publication:** 38

**Category:** Physical Chemistry  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 70

**Source of citations:** SCOPUS

**Citations:** 20

- 98** JOSÉ MANUEL CRIADO LUQUE; LUIS A. PÉREZ MAQUEDA; MARÍA JESÚS DIÁNEZ MILLÁN; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ. Development of a universal constant rate thermal analysis system for being used with any thermoanalytical instrument. JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. 87 - 1, pp. 297 - 300. 2007.

**DOI:** 10.1007/s10973-006-7813-x

**Type of production:** Scientific paper

**Impact source:** ISI  
**Impact index in year of publication:** 1.483  
**Position of publication:** 64

**Category:** Physical Chemistry  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 111

**Source of citations:** SCOPUS

**Citations:** 29

- 99** LUIS A. PÉREZ MAQUEDA; JOSÉ MANUEL CRIADO LUQUE; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ. Combined kinetic analysis of solid-state reactions: A powerful tool for the simultaneous determination of kinetic parameters and the kinetic model without previous assumptions on the reaction mechanism. JOURNAL OF PHYSICAL CHEMISTRY A. 110 - 45, pp. 12456 - 12462. 2006.

**DOI:** 10.1021/jp064792g

**Type of production:** Scientific paper

**Impact source:** ISI  
**Impact index in year of publication:** 3.047  
**Position of publication:** 25

**Category:** Physical Chemistry  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 108

**Impact source:** ISI

**Source of citations:** SCOPUS**Citations:** 178

- 100** JOSÉ MANUEL CRIADO LUQUE; LUIS A. PÉREZ MAQUEDA; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ. Dependence of the preexponential factor on temperature: Errors in the activation energies calculated by assuming that A is constant. JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY. 82 - 3, pp. 671 - 675. 2005.  
**DOI:** 10.1007/s10973-005-0948-3  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 1.425  
**Position of publication:** 33  
**Source of citations:** SCOPUS  
**Citations:** 108  
**Category:** Analytical Chemistry  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 70
- 101** LUIS A. PÉREZ MAQUEDA; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; JOSÉ MANUEL CRIADO LUQUE. Evaluation of the integral methods for the kinetic study of thermally stimulated processes in polymer science. POLYMER. 46 - 9, pp. 2950 - 2954. 2005.  
**DOI:** 10.1016/j.polymer.2005.02.061  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 2.849  
**Position of publication:** 7  
**Source of citations:** SCOPUS  
**Citations:** 48  
**Category:** Science Edition - POLYMER SCIENCE  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 77
- 102** LUIS A. PÉREZ MAQUEDA; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; JOSÉ MANUEL CRIADO LUQUE. Kinetic analysis of solid-state reactions: Precision of the activation energy calculated by integral methods. INTERNATIONAL JOURNAL OF CHEMICAL KINETICS. 37 - 11, pp. 658 - 666. 2005.  
**DOI:** 10.1002/kin.20115  
**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 1.188  
**Position of publication:** 76  
**Source of citations:** SCOPUS  
**Citations:** 53  
**Category:** Physical Chemistry  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 111
- 103** LUIS A. PÉREZ MAQUEDA; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; JOSÉ MANUEL CRIADO LUQUE. SAMPLE CONTROLLED TEMPERATURE (SCT): A NEW METHOD FOR THE SYNTHESIS AND CHARACTERIZATION OF CATALYSTS. Current Topics in Catalysis. pp. 1 - 17. 2007.  
**Type of production:** Scientific paper  
**Relevant publication:** No
- 104** Eva Gil González; Antonio Perejón; Pedro E Sánchez Jiménez; Luis A Pérez Maqueda; Jose M Criado. CHAPTER 16: THERMOANALYTICAL CHARACTERIZATION TECHNIQUES FOR MULTIFERROIC MATERIALS. HANDBOOK OF THERMAL ANALYSIS AND CALORIMETRY: RECENT ADVANCES, TECHNIQUES AND APPLICATIONS, 2ND EDITION. pp. 662 - 683. Elsevier, 2018.  
**DOI:** 10.1016/B978-0-444-64062-8.00010-3  
**Type of production:** Book chapter  
**Format:** Book
- 105** Jose Manuel Criado Luque; Lujis A Pérez Maqueda; Pedro E Sanchez Jimenez; Antonio Perejon Pazo; María J Dianez Millan. Sample controlled thermal analysis (SCTA): Applications to the kinetic analysis of solid state reactions and the synthesis of materials. Thermal Analysis Applied to Complex Systems: Slags, Glasses and Ceramics. 1 - 1, pp. 109 - 142. 2013.



**Type of production:** Book chapter

**Format:** Book

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

## Works submitted to national or international conferences

- 1 Title of the work:** POLYMER DEGRADATION KINETICS: ERRORS IN LIFETIME PREDICTIONS DUE TO INCORRECT MODEL ASSUMPTIONS  
**Name of the conference:** The 10th International Conference of Modification, Degradation and Stabilization of Polymers (MoDeSt2018)  
**Type of event:** Conference  
**Type of participation:** Participatory - invited/keynote talk  
**City of event:** Tokyo, Japan  
**Date of event:** 02/09/2018  
**End date:** 06/09/2018  
**Organising entity:** University of Tokyo  
Antonio Perejon; Pedro E Sánchez Jiménez; Luis A Pérez Maqueda.
- 2 Title of the work:** Reversible Carbonation and Decarbonation reactions for CO<sub>2</sub> capture and thermal energy storage  
**Name of the conference:** 12th European Symposium on Thermal Analysis and Calorimetry  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**City of event:** Brasov, Romania  
**Date of event:** 27/08/2018  
**End date:** 30/08/2018  
Luis A Perez Maqueda; Beatriz Sarrion; Antonio Perejon; Pedro E Sánchez Jiménez; Mónica Benítez; José M Valverde; Ricardo Chacartegui; Carlos Ortiz.
- 3 Title of the work:** Role of Particle Size on Multicycle Calcium Looping Activity of Limestone for Thermochemical Energy Storage of Concentrated Solar Powe  
**Name of the conference:** 3rd South East Europe Conference on Sustainable Development of Energy, Water and Environment Systems  
**Type of participation:** Participatory - oral communication  
**City of event:** Novi Sad, Serbia  
**Date of event:** 30/06/2018  
**End date:** 04/07/2018  
**Organising entity:** University of Zagreb  
Pedro E Sanchez Jimenez; Antonio Perejon; Pablo García Triñanes; Luis A Pérez Maqueda; José M Valverde; Jonatan Durán Martín.
- 4 Title of the work:** TGA for kinetic studies  
**Name of the conference:** Eurokin Workshop  
**Type of event:** Workshop  
**Type of participation:** Participatory - invited/keynote talk  
**Corresponding author:** Yes  
**City of event:** Villeurbanne, France  
**Date of event:** 17/10/2017  
**Organising entity:** Eurokin consortium



- 5** **Title of the work:** Kinetic analysis of complex solid-state reactions involving more than one simultaneous process  
**Name of the conference:** 4th Central and Eastern European Conference on Thermal Analysis and Calorimetry  
**Type of event:** Conference  
**Type of participation:** Participatory - invited/keynote talk  
**City of event:** Chisinau, Moldavia  
**Date of event:** 28/08/2017  
**End date:** 31/08/2017  
Luis A Pérez Maqueda; Pedro E Sánchez Jiménez; Antonio Perejón; José M Criado.
- 6** **Title of the work:** Solid-State Reactions in Natural Carbonates for High-Temperature Thermochemical Energy Storage in Concentrated Solar Power Plants  
**Name of the conference:** 16th European Conference on Solid State Chemistry  
**Type of event:** Conference  
**Type of participation:** Participatory - poster  
**City of event:** Glasgow, United Kingdom  
**Date of event:** 23/07/2017  
**End date:** 26/07/2017  
Jose M Valverde; Pedro Sanchez Jiménez; Beatriz Sarrion; Luis A Pérez Maqueda; Antonio Perejon; Monica Benítez.
- 7** **Title of the work:** Combined tga-ms kinetic analysis of multistep processes. Thermal decomposition and ceramification of polysilazane and polysiloxane preceramic polymers  
**Name of the conference:** 6th EuCheMs Chemistry Congress  
**Type of event:** Conference **Geographical area:** European Union  
**Type of participation:** Participatory - poster  
**City of event:** Sevilla, Spain  
**Date of event:** 11/09/2016  
**End date:** 15/09/2016  
**Organising entity:** EuCheMS and ANQUE  
Pedro E Sanchez Jimenez; Luis A Perez Maqueda; Jose M Criado; Antonio Perejon.
- 8** **Title of the work:** Processing and Properties of polymer derived ceramics: Polysilazanes and polysiloxanes precursors  
**Name of the conference:** 6th EuCheMs Chemistry Congress  
**Type of event:** Conference **Geographical area:** European Union  
**Type of participation:** Participatory - poster  
**City of event:** Sevilla, Spain  
**Date of event:** 11/09/2016  
**End date:** 15/09/2016  
**Organising entity:** EuCheMS and ANQUE  
Pedro E Sanchez Jimenez; Luis A Perez Maqueda; Jose M Criado; Antonio Perejon.
- 9** **Title of the work:** On the use of natural limestone and dolomite for thermochemical energy storage of concentrated solar power  
**Name of the conference:** 22nd International Congress of Chemical and Process Engineering (CHISA 2016) and 19th Conference on Process Integration, Modelling and Optimisation (PRES 2016)  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** Participatory - poster  
**City of event:** Prague, Czech Republic  
**Date of event:** 28/08/2016



**End date:** 31/08/2016

**Organising entity:** Czech Society of Chemical Engineering

Beatriz Sarrion; Jose M Valverde; Antonio Perejon; Luis A Perez Maqueda; Pedro E Sanchez Jimenez; Javier Perez Vaquero.

**10 Title of the work:** Kinetic Analysis of Complex Solid-state Reactions

**Name of the conference:** International Confederation for Thermal Analysis and Calorimetry Congress (ICTAC 2016)

**Type of event:** Conference

**Geographical area:** Non EU International

**Type of participation:** Participatory - invited/keynote talk

**City of event:** Orlando, United States of America

**Date of event:** 14/08/2016

**End date:** 19/08/2016

**Organising entity:** North American Thermal Analysis Society (NATAS)

Luis A Perez Maqueda; Antonio Perejon; Pedro E Sanchez Jimenez; Jose M Criado.

**11 Title of the work:** Fast and scalable fabrication of zinc oxide nanowires for energy harvesting applications

**Name of the conference:** European Congress and Exhibition on Advanced Materials and Processes (Euromat 2015)

**Type of event:** Conference

**Type of participation:** Participatory - poster

**Corresponding author:** No

**City of event:** Warsaw, Poland

**Date of event:** 20/09/2015

**End date:** 25/09/2015

Canlin Ou; Pedro Sanchez Jimenez; Sohini Kar-Narayan.

**12 Title of the work:** Piezoelectric BZCT nanowires for energy-harvesting applications

**Name of the conference:** European Congress and Exhibition on Advanced Materials and Processes (Euromat 2015)

**Type of event:** Conference

**Geographical area:** European Union

**Type of participation:** Participatory - oral communication

**Corresponding author:** Yes

**City of event:** Warsaw, Poland

**Date of event:** 20/09/2015

**End date:** 25/09/2015

Pedro Sanchez Jimenez; Canlin Ou; Sohini Kar-Narayan.

**13 Title of the work:** Kinetic Analysis of complex polymeric precursors into ceramics

**Name of the conference:** TAC 2015 50th Anniversary Conference of the Thermal Methods Group

**Type of event:** Conference

**Geographical area:** European Union

**Type of participation:** Participatory - oral communication

**City of event:** Cambridge, United Kingdom

**Date of event:** 30/03/2015

**End date:** 01/04/2015

**Organising entity:** Cambridge University

Pedro E Sánchez Jiménez; Cristina García Garrido; Luis A Pérez Maqueda; José M Criado.

**14 Title of the work:** Kinetics of Solid - State Reactions: a Thermal Analysis Approach

**Name of the conference:** IX CBRATEC - Congresso Brasileiro de Analise Termica e Calorimetria

**Type of event:** Conference

**Geographical area:** Non EU International



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CURRÍCULUM VITAE NORMALIZADO

56e1b52b1e410b8b54df25ddb5cec5fc

**Type of participation:** Participatory - invited/keynote talk

**City of event:** Serra Negra, Brazil

**Date of event:** 09/11/2014

**End date:** 12/11/2014

Luis A Pérez Maqueda; Pedro E Sánchez Jiménez; José M Criado.

**15 Title of the work:** Kinetic Analysis of the Thermal Decomposition of Polymeric Precursors into Polymer derived SiOC and SiCN Ceramics

**Name of the conference:** Materials Science Engineering MSE2014

**Type of event:** Conference

**Geographical area:** European Union

**Type of participation:** Participatory - oral communication

**City of event:** Darmstadt, Germany

**Date of event:** 23/09/2014

**End date:** 25/09/2014

**Organising entity:** Technische Universitat Darmstadt

Pedro E Sánchez Jiménez; Cristina García Garrido; Luis A Pérez Maqueda; José M Criado.

**16 Title of the work:** Multicyclic capture of CO<sub>2</sub> by CaO at Ca-looping conditions: effects of heat treatment and nanosilica addition

**Name of the conference:** 4th International Congress on Green Process Engineering

**Type of event:** Conference

**City of event:** Sevilla, Spain

**Date of event:** 07/04/2014

**End date:** 10/04/2014

José Manuel Valverde; Pedro Sánchez Jiménez; Luis Pérez Maqueda.

**17 Title of the work:** New random scission kinetic models in polymer thermal degradation studies

**Name of the conference:** 2nd Central and Eastern European Conference on Thermal Analysis and Calorimetry (CEEC-TAC2)

**Type of event:** Conference

**City of event:** Vilnius, Lithuania

**Date of event:** 27/08/2013

**End date:** 30/08/2013

Luis A Pérez Maqueda; Pedro E Sánchez Jiménez; Antonio Perejón Pazo; José Criado Luque.

**18 Title of the work:** Nanostructured materials for CO<sub>2</sub> capturing: a comparison of two approaches

**Name of the conference:** Fluidization XIV. From Fundamentals to Products

**City of event:** Noordwijkerhout, Holland

**Date of event:** 26/05/2013

**End date:** 31/05/2013

José M Valverde; Carlos Soria del Hoyo; Mojgan Talebi; Ruud Van Ommen; Luis Pérez Maqueda; Pedro Sanchez Jimenez; Antonio Perejon.

**19 Title of the work:** Intelligent control of the reaction temperature: applications to the kinetic analysis of solid state reactions and the synthesys of materials

**Name of the conference:** 8th International Conference in Chemical Kinetics

**Type of event:** Conference

**Geographical area:** Non EU International

**Type of participation:** Participatory - poster

**City of event:** Sevilla, Spain

**Date of event:** 2013

**Organising entity:** Universidad de Sevilla

**Type of entity:** University





Luis A Perez Maqueda; José M Criado; Pedro E Sánchez Jiménez; Antonio Perejón; María J Diánez.

- 20** **Title of the work:** Mechanosynthesis of multiferroic La-doped BiFeO<sub>3</sub> perovskites in the entire composition range  
**Name of the conference:** European Congress on Advances Materials and processes (Euromat 2013)  
**Type of event:** Conference **Geographical area:** European Union  
**Type of participation:** 'Participatory - poster  
**City of event:** Sevilla, Spain  
**Date of event:** 2013  
Antonio Perejón; Pedro E Sánchez Jiménez; Luis A Pérez Maqueda; José M Criado; Nahum Masó; Anthony West.
- 21** **Title of the work:** Properties and processing of polymer derived ceramics  
**Name of the conference:** European Congress on Advances Materials and processes (Euromat 2013)  
**Type of event:** Conference **Geographical area:** European Union  
**Type of participation:** Participatory - oral communication  
**City of event:** Sevilla, Spain  
**Date of event:** 2013  
Pedro E Sánchez Jiménez; Cristina García Garrido; Antonio Perejón; Luis A Pérez Maqueda.
- 22** **Title of the work:** The Arrhenius Integral for Non-isothermal kinetics. A new concept for approaching the p(x) function  
**Name of the conference:** 8th International Conference in Chemical Kinetics  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** Sevilla, Spain  
**Date of event:** 2013  
**Organising entity:** Universidad de Sevilla **Type of entity:** University  
José M Criado; Luis A Perez Maqueda; Antonio Perejón; Pedro E Sánchez Jiménez.
- 23** **Title of the work:** Estudio por DSC, DRX y TEM de los cambios estructurales experimentales en función de la temperatura de recocido en una aleación Cu-10Ni-5.5Sn  
**Name of the conference:** XII Congreso Nacional de Materiales. XII Congreso Iberoamericano de Materiales  
**Type of event:** Conference  
**Date of event:** 2012  
**End date:** 2012  
Donoso, Eduardo; MARÍA JESÚS DIÁNEZ MILLÁN; ANTONIO PEREJÓN PAZO; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; MARIA JESÚS SAYAGUÉS DE VEGA; LUIS A. PÉREZ MAQUEDA; JOSÉ MANUEL CRIADO LUQUE.
- 24** **Title of the work:** Influence of annealing on the microstructure of the Cu-10Ni-5.5Sn alloy  
**Name of the conference:** The 15th European Microscopy Congress  
**Type of event:** Conference  
**City of event:** Manchester, United Kingdom  
**Date of event:** 2012  
**End date:** 2012  
MARIA JESÚS SAYAGUÉS DE VEGA; MARÍA JESÚS DIÁNEZ MILLÁN; ANTONIO PEREJÓN PAZO; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; LUIS A. PÉREZ MAQUEDA; Donoso-catalá, Eduardo; JOSÉ MANUEL CRIADO LUQUE.



- 25** **Title of the work:** Mechanochemistry as a method for the synthesis of multiferroic materials  
**Name of the conference:** GEFES 2012  
**Type of event:** Conference  
**City of event:** - SEVILLA, ESPAÑA,  
**Date of event:** 2012  
ANTONIO PEREJÓN PAZO; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; MARÍA JESÚS DIÁNEZ MILLÁN;  
JOSÉ MANUEL CRIADO LUQUE; LUIS A. PÉREZ MAQUEDA.
- 26** **Title of the work:** Kinetic studies in solid state reactions by smart temperature methods and advanced analysis procedures  
**Name of the conference:** 15th International Congress on Thermal Analysis and Calorimetry ICTAC15  
**Type of participation:** Participatory - invited/keynote talk  
**City of event:** Osaka, Japan  
**Date of event:** 2012  
**Organising entity:** ICTAC15  
Jose M Criado; Luis A Perez Maqueda; Pedro E Sanchez Jimenez; Antonio Perejon.
- 27** **Title of the work:** Sample Controlled Reaction Temperature (SCRT): A New Method for Kinetic Analysis and Synthesis of Materials  
**Name of the conference:** 10th International Conference Solid State Chemistry  
**City of event:** Pardubice, Czech Republic  
**Date of event:** 2012  
Jose M Criado; Luis A Perez Maqueda; Pedro E Sanchez Jimenez; Antonio Perejon; Maria J Dianez.
- 28** **Title of the work:** Study by TEM and DSC of the Hardening Mechanism of a Cu<sub>2</sub>10Ni<sub>7</sub>5.5Sn Alloy  
**Name of the conference:** 10th International Conference Solid State Chemistry  
**City of event:** Pardubice, Czech Republic  
**Date of event:** 2012  
Maria J Sayagues; Maria J Dianez; Antonio Perejon; Pedro E Sanchez Jimenez; Luis A Perez Maqueda;  
Jose M Criado.
- 29** **Title of the work:** Multiferroic Perovskite Materials obtained by reactive grinding.  
**Name of the conference:** VII International Conference on Mechanochemistry and Mechanical Alloying. INCOME 2011  
**Type of event:** Conference  
**City of event:** MONTENEGRO, SERBIA,  
**Date of event:** 2011  
ANTONIO PEREJÓN PAZO; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; MARÍA JESÚS DIÁNEZ MILLÁN;  
JOSÉ MANUEL CRIADO LUQUE; LUIS A. PÉREZ MAQUEDA. "Multiferroic Perovskite Materials obtained by reactive grinding.". En: INCOME 2011. 1, pp. 72 - 72. 05/09/2011.
- 30** **Title of the work:** New experimental methods and analysis procedure for kinetic analysis of solid state processes.  
**Name of the conference:** 1st Central and Eastern European Conference on Thermal Analysis and Calorimetry  
**Type of event:** Conference  
**City of event:** CRAIOVA, RUMANIA,  
**Date of event:** 2011  
LUIS A. PÉREZ MAQUEDA; JOSÉ MANUEL CRIADO LUQUE; ANTONIO PEREJÓN PAZO; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; MARÍA JESÚS DIÁNEZ MILLÁN. "New experimental methods and analysis procedure for kinetic analysis of solid state processes.". 1, pp. 46 - 46. 19/09/2011.



- 31 Title of the work:** Preparation of Multiferroic BiFeO<sub>3</sub> perovskite by a direct mechanochemical process  
**Name of the conference:** 12th Conference of the European Ceramic Society (ECerS XII)  
**Type of event:** Conference  
**City of event:** ESTOCOLMO , SUECIA,  
**Date of event:** 2011  
ANTONIO PEREJÓN PAZO; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; LUIS A. PÉREZ MAQUEDA; JOSÉ MANUEL CRIADO LUQUE. "Preparation of Multiferroic BiFeO<sub>3</sub> perovskite by a direct mechanochemical process". 1, pp. 2012 - 2012. 19/06/2011.
- 32 Title of the work:** Proposal of a New mechanichemical phase diagram for the binary system Cu-Zn  
**Name of the conference:** VII International Conference on Mechanochemistry and Mechanical Alloying. INCOME 2011  
**Type of event:** Conference  
**City of event:** MONTENEGRO, SERBIA,  
**Date of event:** 2011  
MARÍA JESÚS DIÁNEZ MILLÁN; JOSÉ MANUEL CRIADO LUQUE; E Donoso; LUIS A. PÉREZ MAQUEDA; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; ANTONIO PEREJÓN PAZO. En: INCOME 2011. 1, pp. 72 - 72. 05/09/2011.
- 33 Title of the work:** KINETIC STUDY OF THE THERMAL DEGRADATION OF POLYSTYRENE-CLAY NANOCOMPOSITE  
**Name of the conference:** 8TH ACNP SHORT COURSE OF NANOSTRUCTURED POLYMERS AND NANOCOMPOSITES (8) (8.2010.MADRID)  
**Type of event:** Conference **Geographical area:** Non EU International  
**City of event:** Madrid, Spain  
**Date of event:** 2010  
PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; ANTONIO PEREJÓN PAZO; JOSÉ MANUEL CRIADO LUQUE; LUIS A. PÉREZ MAQUEDA. "KINETIC STUDY OF THE THERMAL DEGRADATION OF POLYSTYRENE-CLAY NANOCOMPOSITE". En: NAANOESTRUCTURED POLYMERS AND NANOCOMPOSITES. pp. 188 - 188.
- 34 Title of the work:** KINETICS OF THE THERMAL DEHYDROCHLORINATION OF POLY(VINYL CHLORIDE) REVISITED  
**Name of the conference:** EUROPEAN SYMPOSIUM ON THERMAL ANALYSIS AND CALORIMETRY (ESTAC 10) (10) (10.2010.ROTTERDAM (HOLANDA))  
**Type of event:** Conference **Geographical area:** Non EU International  
**City of event:** ROTTERDAM (HOLANDA),  
**Date of event:** 2010  
LUIS A. PÉREZ MAQUEDA; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; ANTONIO PEREJÓN PAZO; JOSÉ MANUEL CRIADO LUQUE. "KINETICS OF THE THERMAL DEHYDROCHLORINATION OF POLY(VINYL CHLORIDE) REVISITED". En: ABSTRACT BOOK OF THE 10TH EUROPEAN SYMPOSIUM ON THERMAL ANALYSIS AND CALORIMETRY (ESTAC 10). pp. 195 - 195.
- 35 Title of the work:** Kinetic of the thermal dehydrochlorination of poly (vinyl chloride). Revisited  
**Name of the conference:** ESTAC10  
**Type of event:** Conference  
**City of event:** ROTTERDAM, HOLANDA,  
**Date of event:** 2010  
LUIS A. PÉREZ MAQUEDA; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; ANTONIO PEREJÓN PAZO; JOSÉ MANUEL CRIADO LUQUE; MARÍA JESÚS DIÁNEZ MILLÁN.



- 36** **Title of the work:** Determination of the onset of fracture of SiCN by Sample Controlled Thermal Analysis  
**Name of the conference:** INTERNATIONAL WORKSHOP ON POLYMER DERIVED CERAMICS  
**Type of event:** Workshop **Geographical area:** Non EU International  
**Type of participation:** Participatory - oral communication  
**City of event:** Boulder, United States of America  
**Date of event:** 2010  
PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ.
- 37** **Title of the work:** MECHANOCHEMICAL PREPARATION OF BATIO3-NI NANOCOMPOSITESWITH HIGH DIELECTRIC CONSTANT  
**Name of the conference:** INTERNATIONAL CONFERENCE STRUCTURES (ICCS) (15) (15.2009.OPORTO (PORTUGAL))  
**Type of event:** Conference **Geographical area:** Non EU International  
**City of event:** OPORTO (PORTUGAL),  
**Date of event:** 2009  
LUIS A. PÉREZ MAQUEDA; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; MARÍA JESÚS DIÁNEZ MILLÁN; JOSÉ MANUEL CRIADO LUQUE. "MECHANOCHEMICAL PREPARATION OF BATIO3-NI NANOCOMPOSITESWITH HIGH DIELECTRIC CONSTANT". En: ABSTRACT BOOK OF THE 15TH INTERNATIONAL CONFERENCE STRUCTURES (ICCS 15). pp. 11 - 11.
- 38** **Title of the work:** Polymer Derived Si-C-O as anode material for lithium-ion batteries  
**Name of the conference:** 8th PACIFIC RIM CONFERENCE ON CERAMIC AND GLASS TECHNOLOGY  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** Participatory - oral communication  
**Date of event:** 2009  
PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; Rishi Raj.
- 39** **Title of the work:** USE OF SAMPLE CONTROLLED THERMAL ANALYSIS METHODS FOR THE STUDY OF THE KINETICS OF SOLID-STATE REACTIONS  
**Name of the conference:** 37TH NORTH AMERICAN THERMAL ANALYSIS SOCIETY CONFERENCE () (.2009.LUBBOCK, TEXAS, EEUU)  
**Type of event:** Conference **Geographical area:** Non EU International  
**City of event:** LUBBOCK, TEXAS, EEUU,  
**Date of event:** 2009  
LUIS A. PÉREZ MAQUEDA; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; ANTONIO PEREJÓN PAZO; JOSÉ MANUEL CRIADO LUQUE. "USE OF SAMPLE CONTROLLED THERMAL ANALYSIS METHODS FOR THE STUDY OF THE KINETICS OF SOLID-STATE REACTIONS". En: ABSTRACTS OF PAPERS PRESENTED AT THE 37TH NORTH AMERICAN THERMAL ANALYSIS SOCIETY CONFERENCE. pp. 220 - 220.
- 40** **Title of the work:** STUDY OF THE DEHYDROXYLATION-REHYDROXYLATION OF PYROPHYLLITE BY SPECTROMETRIC AND THERMAL ANALYSIS METHODS  
**Name of the conference:** 43RD CROATIAN AND 3RD INTERNATIONAL SYMPOSIUM ON AGRICULTURE () (.2008.OPATIJA, CROACIA)  
**Type of event:** Conference **Geographical area:** Others  
**City of event:** OPATIJA, CROACIA,  
**Date of event:** 2008  
Perez-Maqueda, Luis; ADRIÁN DURÁN BENITO; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; Franquello-Zoffman, María Luisa; JOSE LUIS PEREZ RODRIGUEZ. "STUDY OF THE DEHYDROXYLATION-REHYDROXYLATION OF PYROPHYLLITE BY SPECTROMETRIC AND THERMAL ANALYSIS METHODS". En: Abstracts of XII International Conference on Applied Stochastic Models and Data Analysis. pp. 277 - 277.



- 41 Title of the work:** CHARACTERIZATION OF MICROSTRUCTURE CHANGES OF MONTMORILLONITE CLAY SATURATED WITH VARIOUS CATIONS  
**Name of the conference:** MEDICTA 2007 . THE 8TH MEDITERRANEAN CONFERENCE ON CALORIMETRY AND THERMAL ANALYSIS () (.2007.PALERMO, ITALY)  
**Type of event:** Conference **Geographical area:** Others  
**City of event:** PALERMO, ITALY,  
**Date of event:** 2007  
Balek-, Vladimir; JAN SUBRT; JOSE LUIS PEREZ RODRIGUEZ; LUIS A. PÉREZ MAQUEDA; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; JOSÉ PASCUAL COSP. "CHARACTERIZATION OF MICROSTRUCTURE CHANGES OF MONTMORILLONITE CLAY SATURATED WITH VARIOUS CATIONS". En: BOOK OF ABSTRACTS MEDICTA 2007. pp. 192 - 192.
- 42 Title of the work:** COMBINED KINETIC ANALYSIS OF CELLULOSE PYROLYSIS  
**Name of the conference:** MEDICTA 2007 . THE 8TH MEDITERRANEAN CONFERENCE ON CALORIMETRY AND THERMAL ANALYSIS () (.2007.PALERMO, ITALY)  
**Type of event:** Conference **Geographical area:** European Union  
**Type of participation:** 'Participatory - poster  
**City of event:** PALERMO, ITALY,  
**Date of event:** 2007  
PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; LUIS A. PÉREZ MAQUEDA; JOSÉ MANUEL CRIADO LUQUE. "COMBINED KINETIC ANALYSIS OF CELLULOSE PYROLYSIS". En: BOOK OF ABSTRACTS MEDICTA 2007. pp. 179 - 179.
- 43 Title of the work:** CRITICAL STUDY OF THE ISOCONVERSIONAL METHODS OF KINETIC ANALYSIS  
**Name of the conference:** MEDICTA 2007 . THE 8TH MEDITERRANEAN CONFERENCE ON CALORIMETRY AND THERMAL ANALYSIS () (.2007.PALERMO, ITALY)  
**Type of event:** Conference **Geographical area:** Others  
**City of event:** PALERMO, ITALY,  
**Date of event:** 2007  
JOSÉ MANUEL CRIADO LUQUE; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; LUIS A. PÉREZ MAQUEDA. "CRITICAL STUDY OF THE ISOCONVERSIONAL METHODS OF KINETIC ANALYSIS". En: BOOK OF ABSTRACTS MEDICTA 2007. pp. 142 - 142.
- 44 Title of the work:** KINETIC ANALYSIS OF DYNAMIC HEATING RATE THERMOGRAVIMETRIC DATA  
**Name of the conference:** MEDICTA 2007 . THE 8TH MEDITERRANEAN CONFERENCE ON CALORIMETRY AND THERMAL ANALYSIS () (.2007.PALERMO, ITALY)  
**Type of event:** Conference **Geographical area:** European Union  
**Type of participation:** 'Participatory - poster  
**City of event:** PALERMO, ITALY,  
**Date of event:** 2007  
LUIS A. PÉREZ MAQUEDA; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; JOSÉ MANUEL CRIADO LUQUE. "KINETIC ANALYSIS OF DYNAMIC HEATING RATE THERMOGRAVIMETRIC DATA". En: BOOK OF ABSTRACTS MEDICTA 2007. pp. 152 - 152.
- 45 Title of the work:** VENTAJAS DE LOS MÉTODOS DE CONTROL INTELIGENTE DE LA TEMPERATURA PARA EL ESTUDIO DE LA DESCOMPOSICIÓN TÉRMICA DE POLÍMEROS  
**Name of the conference:** REUNIÓN DEL GRUPO ESPECIALIZADO DE POLÍMEROS (10) (10.2007.SEVILLA)  
**Type of event:** Conference **Geographical area:** National  
**Type of participation:** Participatory - oral communication  
**Date of event:** 2007



PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; LUIS A. PÉREZ MAQUEDA; JOSÉ MANUEL CRIADO LUQUE. "VENTAJAS DE LOS MÉTODOS DE CONTROL INTELIGENTE DE LA TEMPERATURA PARA EL ESTUDIO DE LA DESCOMPOSICIÓN TÉRMICA DE POLÍMEROS". En: X REUNIÓN DEL GRUPO ESPECIALIZADO DE POLÍMEROS (RSEQ Y RSEF). AVANCES EN MATERIALES POLIMÉRICOS. pp. 256 - 256.

- 46 Title of the work:** APPLICATION OF NEW METHODS OF SIMPLE CONTROLLED THERMAL ANALYSIS TO KINETIC STUDIES OF THERMAL DEGRADATION OF POLYMERS.

**Name of the conference:** 4TH INTERNATIONAL CONFERENCE ON POLYMER MODIFICATION, DEGRADATION AND STABILIZATION MODEST 2006 () (.2006.SAN SEBASTIÁN, ESPAÑA)

**Type of event:** Conference

**Geographical area:** Non EU International

**City of event:** SAN SEBASTIÁN, ESPAÑA,

**Date of event:** 2006

PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; LUIS A. PÉREZ MAQUEDA; JOSÉ MANUEL CRIADO LUQUE; MARÍA JESÚS DIÁNEZ MILLÁN. "APPLICATION OF NEW METHODS OF SIMPLE CONTROLLED THERMAL ANALYSIS TO KINETIC STUDIES OF THERMAL DEGRADATION OF POLYMERS.". En: PROCEEDINGS OF 4TH INTERNATIONAL CONFERENCE ON POLYMER MODIFICATION, DEGRADATION AND STABILIZATION. MODEST 2006. pp. 133 - 133.

- 47 Title of the work:** DEVELOPMENT OF A UNIVERSAL SIMPLE CONTROLLED REACTION TEMPERATURA (SCRT) SYSTEM FOR BEING USED WITH ANY THERMO ANALYTICAL INSTRUMENT.

**Name of the conference:** CALORIMETRY AND THERMAL ANALYSIS CONFERENCE (CALCAT '06) () (.2006.SANTIAGO DE COMPOSTELA)

**Type of event:** Conference

**City of event:** SANTIAGO DE COMPOSTELA,

**Date of event:** 2006

JOSÉ MANUEL CRIADO LUQUE; LUIS A. PÉREZ MAQUEDA; MARÍA JESÚS DIÁNEZ MILLÁN; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ. "DEVELOPMENT OF A UNIVERSAL SIMPLE CONTROLLED REACTION TEMPERATURA (SCRT) SYSTEM FOR BEING USED WITH ANY THERMO ANALYTICAL INSTRUMENT.". En: CALCAT06 TOOLS IN SCIENCE, INDUSTRY AND ENVIRONMENTAL STUDIES. pp. 48 - 48.

- 48 Title of the work:** PREPARATION OF BATIO3 NI NANOCOMPOSITES WITH HIGH DIELECTRIC CONSTANT BY MECHANICAL ALLOYING

**Name of the conference:** 7TH INTERNATIONAL CONFERENCE SOLID STATE CHEMISTRY 2006 () (.2006.PARDUBICE, CZECH REPUBLIC)

**Type of event:** Conference

**Geographical area:** Non EU International

**Type of participation:** 'Participatory - poster

**City of event:** PARDUBICE, CZECH REPUBLIC,

**Date of event:** 2006

PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ; LUIS A. PÉREZ MAQUEDA; MARÍA JESÚS DIÁNEZ MILLÁN; JOSÉ MANUEL CRIADO LUQUE. "PREPARATION OF BATIO3 NI NANOCOMPOSITES WITH HIGH DIELECTRIC CONSTANT BY MECHANICAL ALLOYING". En: BOOK OF ABSTRACTS 7TH INTERNATIONAL CONFERENCE SOLID STATE CHEMISTRY 2006. pp. 124 - 124.

- 49 Title of the work:** THE DEPENDENCE OF THE ACTIVATION ENERGY ON THE REACTED FRACTION: A REAL PHENOMENON OR AN APPARENT EFFECT

**Name of the conference:** ESTAC 9 () (.2006.CRACOVIA (POLONIA))

**Type of event:** Conference

**Geographical area:** Others

**City of event:** CRACOVIA (POLONIA),

**Date of event:** 2006



JOSÉ MANUEL CRIADO LUQUE; LUIS A. PÉREZ MAQUEDA; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ.  
"THE DEPENDENCE OF THE ACTIVATION ENERGY ON THE REACTED FRACTION: A REAL PHENOMENON OR AN APPARENT EFFECT". En: ESTAC 9. pp. 68 - 68.

**50 Title of the work:** USE OF SAMPLE CONTROLLED THERMAL ANALYSIS TO THE STUDY OF THERMAL DEGRADATION OF POLYMERS

**Name of the conference:** ESTAC 9 () (.2006.CRACOVIA (POLONIA))

**Type of event:** Conference

**Geographical area:** Others

**City of event:** CRACOVIA (POLONIA),

**Date of event:** 2006

LUIS A. PÉREZ MAQUEDA; JOSÉ MANUEL CRIADO LUQUE; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ.  
"USE OF SAMPLE CONTROLLED THERMAL ANALYSIS TO THE STUDY OF THERMAL DEGRADATION OF POLYMERS". En: ESTAC 9. pp. 117 - 117.

**51 Title of the work:** Sample Controlled Reaction Temperature (SCRT): A New Method for Kinetic Analysis and Synthesis of Materials.

**Name of the conference:** 10th International Conference Solid State Chemistry

**Type of event:** Conference

**City of event:** Brno, Czech Republic

**Date of event:** 2005

**End date:** 2005

JOSÉ MANUEL CRIADO LUQUE; LUIS A. PÉREZ MAQUEDA; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ;  
ANTONIO PEREJÓN PAZO; MARÍA JESÚS DIÁNEZ MILLÁN.

**52 Title of the work:** Determinación por Difracción de rayos X de los Parámetros Cristalográficos de Minerales de Composición  $(Ca_xMg_{1-x})CO_3$  obtenidos por Síntesis Suave (soft synthesis).

**Name of the conference:** XXII Simposio del Grupo Especializado de Cristalografía y Crecimiento Cristalino

**Type of event:** Conference

MARÍA JESÚS DIÁNEZ MILLÁN; JOSÉ MANUEL CRIADO LUQUE; LUIS A. PÉREZ MAQUEDA; ANTONIO PEREJÓN PAZO; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ.

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

**Title of the work:** Development of several thermoanalytical devices for the synthesis of materials by means of the Sample Controlled Thermal Analysis.

**Name of the event:** 1st Central and Eastern European Conference on Thermal Analysis and Calorimetry

**Type of event:** Course

**City of event:** CRAIOVA, RUMANIA,

**Date of event:** 2011

JOSÉ MANUEL CRIADO LUQUE; MARÍA JESÚS DIÁNEZ MILLÁN; LUIS A. PÉREZ MAQUEDA; ANTONIO PEREJÓN PAZO; PEDRO ENRIQUE SÁNCHEZ JIMÉNEZ.



## R&D management and participation in scientific committees

### R&D management

**Name of the activity:** Compra de Lote de Cámaras Secas para el Instituto de Ciencia de Materiales

**Type of management:** Management of R&D&I actions and projects

**Performed tasks:** Gestión de la Compra

**Entity:** Instituto de Ciencia de Materiales de Sevilla    **Type of entity:** State agency

**Start date:** 01/07/2014

**Average annual budget:** 250.000

**Aims of the event:** Gestión de Compra de equipamiento

**Specific tasks:** Gestión de la Compra de Lote de Cámaras Secas para el Instituto de Ciencia de Materiales

## Other achievements

### Stays in public or private R&D centres

- 1 **Entity:** University of Cambridge    **Type of entity:** University  
**Faculty, institute or centre:** Department of Materials Science  
**City of entity:** Cambridge, United Kingdom  
**Start-End date:** 01/10/2014 - 30/09/2015    **Duration:** 12 months  
**Funding entity:** Marie Curie Actions-Junta de Andalucía  
**Name of programme:** TALENTIA POSTDOC FELLOWSHIP PROGRAMME  
**Goals of the stay:** Post-doctoral
- 2 **Entity:** INSTITUT EUROPEEN DES MEMBRANES  
**City of entity:** MONTPELLIER; FRANCIA,  
**Start-End date:** 14/10/2010 - 31/05/2011  
**Goals of the stay:** Post-doctoral  
**Provable tasks:** Estancia en INSTITUT EUROPEEN DES MEMBRANES - Posdoctoral  
**Acquired skills developed:** PREPARACION DE CERAMICAS POROSAS DE ALTA SUPERFICIE ESPECIFICA Y RESISTENCIA A CONDICIONES EXTREMAS MEDIANTE LA DESCOMPOSICION DE PRECURSORES POLIMERICOS.
- 3 **Entity:** DEPARTMENT OF MECHANICAL ENGINEERINGUNIVERSITY OF COLORADO AT BOULDER  
**Faculty, institute or centre:** University of Colorado  
**City of entity:** BOULDER; ESTADOS UNIDOS DE AMERICA,  
**Start-End date:** 01/06/2008 - 31/01/2010  
**Goals of the stay:** Post-doctoral  
**Acquired skills developed:** SINTESIS Y CARACTERIZACION DE MATERIALES CERAMICOS OBTENIDOS POR DESCOMPOSICION TERMICA DE PRECURSORES POLIMERICOS, CON VISTAS A SU APLICACION EN BATERIAS DE ION LITIO
- 4 **Entity:** UNIVERSITAT LUDWIG-MAXIMILLIAM  
**City of entity:** MUNICH; ALEMANIA,  
**Start date:** 15/02/2009    **Duration:** 28 days  
**Goals of the stay:** Post-doctoral





**Provable tasks:** Estancia en UNIVERSITAT LUDWIG-MAXIMILLIAM - Posdoctoral

**Acquired skills developed:** CARACTERIZACION POR EELS DE LAS CERAMICAS DERIVADAS DE POLIMEROS PREPARADAS DURANTE LA ESTANCIA EN LOS EEUU

**5 Entity:** CENTRE OF APPLIED CATALYSIS

**City of entity:** HUDDERSFIELD; REINO UNIDO,

**Start date:** 09/01/2007

**Duration:** 118 days

**Goals of the stay:** Doctorate

**Provable tasks:** Estancia en CENTRE OF APPLIED CATALYSIS - Invitado/a

**Acquired skills developed:** APLICACION DE LOS METODOS INTELIGENTES DE CONTROL DE LA TEMPERATURA A PROCESOS CATALITICOS

### Obtained accreditations/recognitions

**1 Description:** Acreditación para la Figura de Contratado Doctor

**Accrediting entity:** Agencia Nacional de Evaluación **Type of entity:** Agencia de la Calidad y Acreditación

**Date of recognition:** 10/10/2018

**2 Description:** Acreditación para la figura de Profesor Universidad Privada

**Accrediting entity:** Agencia Nacional de Evaluación **Type of entity:** Agencia de la Calidad y Acreditación

**Date of recognition:** 10/10/2018

**3 Description:** Programa de Incentivación de la Incorporación e Intensificación de la Actividad INvestigadora (Programa I3)

**Accrediting entity:** Agencia Estatal de Investigación

**City accrediting entity:** Spain

**Date of recognition:** 22/05/2018