

**c v n** CURRÍCULUM VITAE NORMALIZADO



Generated from: Editor CVN de FECYT  
Date of document: 19/08/2019  
**v 1.4.0**  
f0b50ef7e9497e0443cbc3524fcda772

This electronic file (PDF) has embedded CVN technology (CVN-XML). The CVN technology of this file allows you to export and import curricular data from and to any compatible data base. List of adapted databases available at: <http://cvn.fecyt.es/>

## 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.

Pere Castell se doctoró en Química en el año 2002 en la Universitat Rovira i Virgili en Tarragona y ha desarrollado toda su investigación en el área de la Ciencia de los Materiales. Es destacable la consistencia en su línea de investigación iniciada en sus etapas formativas para ser desarrollada durante sus etapas postdoctorales que le han llevado a ser el responsable científico del Centro Tecnológico AITIIP.

El solicitante ha seguido una evolución continua durante su formación, partiendo de los estudios fundamentales de resinas epoxy y materiales poliméricos durante el desarrollo de su tesis doctoral, siguiendo a la aplicación de estos materiales como recubrimientos para materiales poliméricos durante su etapa postdoctoral, y concluyendo con la desarrollo de materiales compuestos avanzados basados en nanotubos de carbono y grafeno durante su última etapa postdoctoral. La gran coherencia de su trayectoria investigadora se ha confirmado con las tareas asignadas como director del departamento de I + D en Nanozar durante 5 años, donde ha sido capaz de desarrollar aplicaciones de nuevos materiales sin abandonar su continúa formación, así como la participación en la formación de nuevos investigadores. Desde 2012 el doctor ha tenido la oportunidad de comenzar una nueva línea de investigación en la Fundación Aitiip donde ha sido designado como responsable científico de la entidad. Es responsabilidad del solicitante para desarrollar nuevas aplicaciones para los nanocompuestos basados en polímeros.

El investigador ha participado activamente en más de 30 proyectos competitivos de investigación financiados (siendo IP en 14, varios de ellos proyectos europeos FP7, H2020 (CleanSky, BBI, etc...), M-RECT, DIBBIOPACK , FUNGUSCHAIN, HYPERBIOCOAT, FALCON y ECOXY) y varios proyectos de transferencia de tecnología con la industria tanto a nivel nacional e internacional. Ha colaborado activamente en la formación de nuevos investigadores en la dirección de 4 tesis doctorales y varios proyectos fin de máster. Miembro de varias plataformas tecnológicas de ámbito Europeo así como miembro del grupo de trabajo CapTech Materials de la Agencia Europea de la Defensa (EDA).

Toda su contribución científica se recoge en 46 publicaciones científicas (incluyendo algunos libros de capítulos) en revistas de alto índice de impacto (J. Mat. Chem., Carbon, Comp. Sci. Tech., Polymer, entre otros revistas del área de materiales), 4 más en revisión a la espera para su aceptación. El número de citas en Agosto de 2019 es de más de 1000 con un índice h igual a 20.

El investigador colabora como revisor en varias revistas científicas de alto impacto además es revisor experto de propuestas tanto nacionales (ANEP) como europeas en programas EUROSTARS, H2020, MNT Era-Net, Innovation Fund Denmark, etc... siendo nombrado como



investigador experto en el área de materiales y procesos avanzados. El solicitante además ha presentado más de 60 contribuciones a congresos internacionales tanto como participante como invitado.



## 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.

Pere Castell ha dirigido varias tesis doctorales en los distintos puestos de trabajo que ha ocupado tanto en España como en Holanda. Destacando las tesis doctorales que está dirigiendo actualmente (1 defendida en Febrero de 2016 y 3 más en ejecución) en colaboración con empresas (BHS, FERSA y TECNOPACKAGING) resaltando el perfil aplicado de investigador.

Las publicaciones del investigador (45 actualmente publicadas, más varias en proceso de revisión) destacan por ser la mayoría de Q1, con un total de citas de unas 1000 con un índice h de 20 a fecha de Agosto de 2019

Es destacable el papel de IP de Pere Castell que ha sido investigador principal de proyectos Europeos (FP7, H2020, Life+, EUREKA, etc...) además de proyectos nacionales (INNFACTO, PTQ, RETOS COLABORACIÓN, CDTI, etc..) y proyectos regionales, además de atesorar una dilatada experiencia en contratos de colaboración directa con empresas a través de servicios tecnológicos, estudios de viabilidad, entre otros (participando en más de 20 contratos privados con empresas al año).



ORCID: **0000-0002-3611-9957**  
ScopusID: **6701344378**  
ResearcherID: **E-4118-2013**

### **Current professional situation**

**Employing entity:** FUNDACION AITIIP

**Department:** Departamento I+D

**Professional category:** Scientific manager

**Start date:** 15/05/2012

**Type of contract:** Permanent employment contract

**Dedication regime:** Full time

**Primary (UNESCO code):** 230000 - Chemistry; 331208 - Material properties; 331210 - Plastics; 331212 - Testing of materials

**Secondary (UNESCO code):** 230403 - Composite polyiners; 230405 - Gums; 230406 - Polymers of high molecular weight; 230408 - Macromolecules; 230410 - Monomer chemistry; 230411 - Natural fibres; 230412 - Network polymers; 230414 - Polyesters; 230415 - Polyethylene; 230416 - Polymer analysis; 230417 - Polymers in dispersad forro; 230420 - Polystyrene; 230423 - Synthesis of macromolecules; 230424 - Synthetic fibres

**Tertiary (UNESCO code):** 230600 - Organic chemistry

**Performed tasks:** Scientific director of the entity and manager of the nanotechnology area at Aitiip technological centre. Manager of FP7, national and regional R&D projects.

**Identify key words:** Organic chemistry; Chemistral tecnology

### **Previous positions and activities**

	<b>Employing entity</b>	<b>Professional category</b>	<b>Start date</b>
1	NANOZAR SL	R&D Director	15/05/2008
2	Instituto de Carboquímica	Postdoctoral researcher	01/03/2008
3	NANOZAR SL	Researcher	16/04/2007
4	Instituto de Carboquímica	Postdoctoral researcher	01/04/2004
5	Technische Universiteit Eindhoven	Postdoctoral researcher	01/04/2002
6	TNO industrial technology	Postdoctoral researcher	01/04/2002
7	Universitat Rovira i Virgili	Predocctoral researcher	01/05/1998

**1** **Employing entity:** NANOZAR SL

**Professional category:** R&D Director

**Start-End date:** 15/05/2008 - 14/05/2012

**Duration:** 4 years

**2** **Employing entity:** Instituto de Carboquímica

**Type of entity:** State agency

**Professional category:** Postdoctoral researcher

**Start-End date:** 01/03/2008 - 14/05/2008



- 3** **Employing entity:** NANOZAR SL  
**Professional category:** Researcher  
**Start-End date:** 16/04/2007 - 29/02/2008
- 4** **Employing entity:** Instituto de Carboquímica  
**Professional category:** Postdoctoral researcher  
**Start-End date:** 01/04/2004 - 31/03/2007  
**Type of entity:** State agency
- 5** **Employing entity:** Technische Universiteit Eindhoven  
**Professional category:** Postdoctoral researcher  
**Start-End date:** 01/04/2002 - 31/03/2004  
**Type of entity:** University
- 6** **Employing entity:** TNO industrial technology  
**Professional category:** Postdoctoral researcher  
**Start-End date:** 01/04/2002 - 31/03/2004  
**Type of entity:** R&D Centre  
**Duration:** 2 years
- 7** **Employing entity:** Universitat Rovira i Virgili  
**Professional category:** Predoctoral researcher  
**Start-End date:** 01/05/1998 - 28/02/2002  
**Type of entity:** University



## Education

### University education

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

**University degree:** Higher degree

**Name of qualification:** Chemistry degree

**Degree awarding entity:** Universitat Rovira i Virgili **Type of entity:** University

**Date of qualification:** 27/09/1996

#### Doctorates

**Doctorate programme:** Programa Oficial de Doctorado en Química: Química de Síntesis, Métodos de Separación, Catálisis, Materiales Avanzados

**Degree awarding entity:** Universitat Rovira i Virgili **Type of entity:** University

**Date of degree:** 01/02/2002

### Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
Dutch	A2	A1	A1	A1	A1
English	C1	C1	C1	C1	C1
Catalan	C2	C2	C2	C2	C2
Spanish	C2	C2	C2	C2	C2

## Teaching experience

### General teaching experience

**1 Name of the course:** Experimentación en Síntesis Química I y II

**University degree:** Chemistry degree

**Start date:** 01/09/2000

**End date:** 30/06/2001

**End date:** 30/06/2001

**Entity:** Universitat Rovira i Virgili

**Type of entity:** University

**Faculty, institute or centre:** Analytical Chemistry and Organic Chemistry Department. Chemistry Faculty

**2 Name of the course:** Química Orgánica

**University degree:** Chemistry degree

**Start date:** 01/09/1999

**End date:** 30/06/2000

**End date:** 30/06/2000

**Entity:** Universitat Rovira i Virgili

**Type of entity:** University



**Faculty, institute or centre:** Analytical Chemistry and Organic Chemistry Department. Chemistry Faculty

**3 Name of the course:** Operaciones básicas

**University degree:** Chemistry degree

**Start date:** 01/09/1998

**End date:** 30/06/1999

**End date:** 30/06/1999

**Entity:** Universitat Rovira i Virgili

**Type of entity:** University

**Faculty, institute or centre:** Analytical Chemistry and Organic Chemistry Department. Chemistry Faculty

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

**1 Project title:** MEJORA DE LAS PROPIEDADES DE TERMOPLÁSTICOS BIOBASADOS MEDIANTE EL USO DE REFUERZOS Y ADITIVOS Y DE SU PROCESADO MEDIANTE INYECCIÓN Y EXTRUSIÓN SOPLADO

**Entity:** Universidad de Zaragoza

**Type of entity:** University

**Student:** Victor Peinado Canudo

**Date of reading:** 08/02/2016

**2 Project title:** DESARROLLO Y CARACTERIZACIÓN DE BIOMATERIALES PARA APLICACIONES PROTÉSICAS. MEJORA DEL POLIETILENO DE ULTRA ALTO PESO MOLECULAR (UHMWPE) CON LA INTEGRACIÓN DE GRAFENOS FUNCIONALIZADOS

**Type of project:** Work leading to an ASD

**Entity:** Universidad de Zaragoza

**Type of entity:** University

**City of entity:** ZARAGOZA, Aragon, Spain

**Student:** Lidia Garcia

**Date of reading:** 30/12/2014

**3 Project title:** NANOTUBOS DE CARBONO SINTESIS Y PROCESADO

**Entity:** Universidad de Zaragoza

**Type of entity:** University

**Student:** David Nuñez García

**Date of reading:** 2014

**4 Project title:** PREPARACIÓN Y CARACTERIZACIÓN DE MATERIALES COMPUESTOS DE NANOTUBOS DE CARBONO Y GRAFENO

**Entity:** Universidad de Zaragoza

**Type of entity:** University

**Student:** Manoli Cano Galey

**Date of reading:** 07/03/2013

**5 Project title:** INTEGRATION OF SINGLE-WALLED CARBON NANOTUBES IN POLYMERIC MATRICES THROUGH TAILORED FUNCTIONALIZATION

**Entity:** Universidad de Zaragoza

**Type of entity:** University

**Student:** Jose Miguel González Dominguez

**Date of reading:** 09/02/2012

**6 Project title:** MATERIALES COMPUESTOS NANOESTRUCTURADOS POLIANILINA/NANOTUBOS DE CARBONO

**Entity:** Universidad de Zaragoza

**Type of entity:** University

**Student:** Pablo Jiménez Manero

**Date of reading:** 22/12/2011





- 7** **Project title:** Estudios de propiedades mecánicas y aligeramiento en nanocomposites termoplásticos orientados al sector del electrodoméstico  
**Entity:** BSH Electrodomésticos España, S.A. **Type of entity:** Business  
**Student:** Andrés Anadón Bayo
- 8** **Project title:** Nuevos biomateriales para el sector envase. Nanoaditivos y procesado  
**Entity:** TECNOPACKAGING SA **Type of entity:** Business  
**Student:** Lidia García Quiles
- 9** **Project title:** RODAMIENTOS AVANZADOS DE ALTA EFICIENCIA PARA CONDICIONES EXTREMAS. NUEVOS MATERIALES POLIMÉRICOS CON PRESTACIONES MEJORADAS  
**Entity:** FERSA BEARINGS SA **Type of entity:** Business  
**Student:** Aleida Lostalé

## Healthcare experience

### Other activities/achievements not included above

- 1** **Other relevant activities:** Acreditado Profesor Universidad Privada  
**Entity where project took place:** Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** PUBLICO  
**End date:** 08/06/2016
- 2** **Other relevant activities:** Acreditado Profesor ayudante doctor  
**Entity where project took place:** Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** PUBLICO  
**End date:** 08/06/2016
- 3** **Other relevant activities:** Acreditado Profesor contratado doctor  
**Entity where project took place:** Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** PUBLICO  
**End date:** 08/06/2016
- 4** **Other relevant activities:** Member of the dissertation committee. Estrategias en el diseño para la reducción del impacto ambiental de las encimeras de inducción by Daniel Elduque Viñales.  
**Entity where project took place:** Universidad de Zaragoza **Type of entity:** University  
**End date:** 27/10/2014
- 5** **Other relevant activities:** Member of the dissertation committee. Estudio y mejora de las propiedades reológicas de materiales termoplásticos en procesos productivos de inyección y extrusión mediante boquillas monitorizadas. by Manuel Muniesa Burillo  
**Entity where project took place:** Universidad de Zaragoza **Type of entity:** University  
**End date:** 27/10/2014
- 6** **Other relevant activities:** R&D director at Nanozar SL (2007-2012)  
**Entity where project took place:** NANOZAR SL  
**End date:** 14/05/2012



- 7 Other relevant activities:** Participation of Nanozar at the Nanotech 2009 fair (Tokio, Japan, 18-20 February 2009) in collaboration with CSIC  
**Entity where project took place:** Consejo Superior de Investigaciones Científicas  
**Type of entity:** State agency  
**End date:** 2009
- 8 Other relevant activities:** Emprendedor XXI award (second prize) offered by LA CAIXA, Gob. Aragón and Cámara de Comercio Zaragoza. June 2008  
**Entity where project took place:** Gobierno de Aragón  
**Type of entity:** Camara de comercio  
**End date:** 2008
- 9 Other relevant activities:** Invited talk. "Aqueous Carbon Nanotube based Dispersions", Genk (CENTEXBEL) Belgium. 2008  
**Entity where project took place:** Centexbel. (Genk, Belgium)  
**End date:** 2008
- 10 Other relevant activities:** TORRES QUEVEDO GRANT awarded by the Ministry of Education and Science  
**Entity where project took place:** NANOZAR SL  
**End date:** 11/04/2007
- 11 Other relevant activities:** Invited talk "Aplicaciones Industriales de la Nanotecnología" organized in the framework of the programme Nanoaracat with the support of the Cambra de Comerç de Barcelona. November 2007  
**Entity where project took place:** CAMARA COMERCIO E INDUSTRIA. BARCELONA  
**Type of entity:** Associations and Groups  
**End date:** 2007
- 12 Other relevant activities:** Invited talk. "Jornadas sobre el interés de los nanotubos de carbono", organized by INTA at Torrejon de Ardoz. 2007  
**Entity where project took place:** Instituto Nacional de Técnica Aeroespacial  
**Type of entity:** Public Research Body  
**End date:** 2007
- 13 Other relevant activities:** Member of the dissertation committee "Materiales compuestos de polianilina y nanotubos de carbono" por Raquel Sainz Vaqué.  
**Entity where project took place:** Universidad de Zaragoza  
**Type of entity:** University  
**End date:** 2006
- 14 Other relevant activities:** Member of the dissertation committee "Modificació química de reines epoxi amb lactones" por Cristina Mas Quilez.  
**Entity where project took place:** Universitat Rovira i Virgili  
**Type of entity:** University  
**End date:** 2004
- 15 Other relevant activities:** 2nd best poster, prize obtained at the ST Science day 2003 in Eindhoven  
**Entity where project took place:** Technische Universiteit Eindhoven  
**Type of entity:** University  
**End date:** 2003



- 16 Other relevant activities:** Invited talk. 'Photo-grafting of benzophenone derivatives on polypropylene: improvement of adhesion of uv curable powder coatings' EUROPEAN COATINGS CONFERENCE. MODERN COATINGS FOR PLASTICS SUBSTRATES. June 2003. Berlin  
**Entity where project took place:** European coatings conference  
**Type of entity:** Associations and Groups  
**End date:** 2003
- 17 Other relevant activities:** Invited talk. 'Surface modification of Polypropylene' VI SYMPOSIUM OF THE COATING TECHNOLOGY GROUP. May 2003. Eindhoven  
**Entity where project took place:** Technische Universiteit Eindhoven  
**Type of entity:** University  
**End date:** 2003
- 18 Other relevant activities:** 1st prize winner "Investigación en Química 2002". Award offered by Associació empresarial Química de Tarragona (AEQT) and the Chemistry Faculty of Tarragona  
**Entity where project took place:** Universitat Rovira i Virgili  
**Type of entity:** University  
**End date:** 2002
- 19 Other relevant activities:** Pre-doctoral grant awarded for PhD studies with industrial relevances. Offered by the Generalitat de Catalunya  
**Entity where project took place:** Universitat Rovira i Virgili  
**Type of entity:** University  
**End date:** 1999
- 20 Other relevant activities:** Pre-doctoral grant awarded by the Universitat Rovira i Virgili  
**Entity where project took place:** Universitat Rovira i Virgili  
**Type of entity:** University  
**End date:** 1998
- 21 Other relevant activities:** Experto Evaluador varios programas H2020  
**Entity where project took place:** Comisión Europea  
**Type of entity:** PUBLICA
- 22 Other relevant activities:** Peer reviewer of several journals (J. App. Polym. Chem, J. Nanoscience and Nanotechnology, Composites Science and Technology, Chemistry of Materials, etc...)

## 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:** POLYNSPIRE. Demonstration of Innovative Technologies towards a more efficient and sustainable plastic recycling. Proposal number: 820665  
**Entity where project took place:** FUNDACIÓN AITIIP **Type of entity:** Technological Centre  
**City of entity:** ZARAGOZA, Aragon, Spain  
**Start-End date:** 01/09/2018 - 30/08/2021  
**Total amount:** 7.970.035,64 €
- 2** **Name of the project:** 1. Advanced polymeric materials for transformation through 3D-Printing technologies (PAIM3D) RTC-2017-5988-5  
**Entity where project took place:** FUNDACION AITIIP  
**City of entity:** ZARAGOZA, Aragon, Spain  
**Nº of researchers:** 8  
**Start-End date:** 01/01/2018 - 31/12/2020  
**Total amount:** 395.012,28 €
- 3** **Name of the project:** High performance biomass extracted functional hybrid polymer coatings for food, cosmetic and medical device packaging HyperBioCoat (BBI 2015-720736)  
**Entity where project took place:** FUNDACION AITIIP  
**City of entity:** ZARAGOZA, Aragon, Spain  
**Name principal investigator (PI, Co-PI....):** Pere Castell Muixi  
**Nº of researchers:** 14  
**Start-End date:** 02/08/2016 - 01/08/2020  
**Total amount:** 585.568,75 €
- 4** **Name of the project:** Bio-based recyclable, reshapable and repairable (3R) fibre-reinforced EpOXY composites for automotive and construction sectors. ECOXY (BBI-2016-R07 GRANT 744311)  
**Entity where project took place:** FUNDACION AITIIP  
**City of entity:** ZARAGOZA, Aragon, Spain  
**Name principal investigator (PI, Co-PI....):** Sarah Montes; Aratz Genua; Pere Castell  
**Nº of researchers:** 26  
**Funding entity or bodies:** BBI JU (H2020)  
**Start-End date:** 01/06/2017 - 31/05/2020  
**Total amount:** 4.845.960 €
- 5** **Name of the project:** Biopolymers with advanced functionalities for building and automotive parts processed through additive manufacturing BARBARA (BBI-2016-R07 Grant 745578)  
**Entity where project took place:** FUNDACION AITIIP  
**City of entity:** ZARAGOZA, Aragon, Spain  
**Name principal investigator (PI, Co-PI....):** Pere Castell Muixi



**Nº of researchers:** 12

**Funding entity or bodies:**

BBI JU (H2020)

**Start-End date:** 01/05/2017 - 30/04/2020

**Total amount:** 2.770.750 €

**6 Name of the project:** Towards circular economy in the plastic packaging value chain (CIRC-PACK. CIRC-01-2016-2017 Grant agreement 730423-2)

**Entity where project took place:** FUNDACION AITIIP

**City of entity:** ZARAGOZA, Aragon, Spain

**Name principal investigator (PI, Co-PI....):** Aitana Saez de Guinoa; Pere Castell Muixi

**Nº of researchers:** 24

**Funding entity or bodies:**

H2020-IND-CE-2016-17

**Type of entity:** Associations and Groups

**City funding entity:** BRUSELAS, Belgium

**Start-End date:** 01/05/2017 - 30/04/2020

**Total amount:** 9.252.466,25 €

**7 Name of the project:** GRUPOS DGA I+AITIIP T08 17R

**Entity where project took place:** FUNDACION AITIIP

**City of entity:** ZARAGOZA, Aragon, Spain

**Nº of researchers:** 24

**Funding entity or bodies:**

Diputación General de Aragón

**Type of entity:** GRUPOS DGA

**City funding entity:** Zaragoza, Aragon, Spain

**Start-End date:** 30/09/2017 - 31/12/2019

**Total amount:** 43.982 €

**8 Name of the project:** MATERIALES POLIMÉRICOS CON PROPIEDADES TÉRMICAS Y ELÉCTRICAS A LA CARTA BASADOS EN PA6 (CONDUCTMYDE)

**Entity where project took place:** FUNDACION AITIIP

**City of entity:** ZARAGOZA, Aragon, Spain

**Name principal investigator (PI, Co-PI....):** Pere Castell Muixi; Elena Piera; Miguel Angel Caballero

**Nº of researchers:** 6

**Funding entity or bodies:**

Comisión Europea

**Type of entity:** PUBLICA

**City funding entity:** Madrid, Community of Madrid, Spain

**Start-End date:** 01/09/2016 - 31/12/2019

**Total amount:** 561.225,54 €

**9 Name of the project:** RODAMIENTOS AVANZADOS DE ALTA EFICIENCIA PARA CONDICIONES EXTREMAS-HiEfBe

**Entity where project took place:** FUNDACION AITIIP

**City of entity:** ZARAGOZA, Aragon, Spain

**Name principal investigator (PI, Co-PI....):** Amaya Igartua; Sergio Santo Domingo; Pere Castell Muixi

**Nº of researchers:** 12

**Funding entity or bodies:**

Ministerio economía y competitividad

**Type of entity:** State agency

**City funding entity:** MADRID, Community of Madrid, Spain



**Start-End date:** 01/09/2016 - 31/08/2019

**Total amount:** 999.845,2 €

**10 Name of the project:** Valorisation of mushroom agrowastes to obtain high value products (FUNGUISCHAIN BBI 2015-720720)

**Entity where project took place:** FUNDACION AITIIP

**Name principal investigator (PI, Co-PI....):** Pere Castell Muixi

**Nº of researchers:** 12

**Funding entity or bodies:**

BBI EUROPEAN COMMISSION

**Type of entity:** EU

**City funding entity:** BRUSELAS, Belgium

**Start-End date:** 02/08/2016 - 01/08/2019

**Total amount:** 8.143.661,25 €

**11 Name of the project:** LIFE RECYSITE Production of fully recyclable and reusable green composites based on bioresins and natural fibres (LIFE 15 ENV/BE/000204)

**Entity where project took place:** FUNDACION AITIIP

**City of entity:** ZARAGOZA, Aragon, Spain

**Nº of researchers:** 10

**Funding entity or bodies:**

EUROPEAN COMMISSION (LIFE PROGRAM)

**Type of entity:** UE

**City funding entity:** BRUSELAS, Belgium

**Start-End date:** 01/07/2016 - 30/06/2019

**Total amount:** 2.073.656 €

**12 Name of the project:** 10. FALCON. Fully automated, controlled and versatile system for low cost, high rate and energy efficient production of highly loaded aeronautical structural parts. CleanSky Proposal number: 754274

**Entity where project took place:** FUNDACION AITIIP

**City of entity:** ZARAGOZA, Aragon, Spain

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

**Total amount:** 496.250 €

**13 Name of the project:** Fully automated, controlled and versatile system for low cost, high rate and energy efficient production of highly loaded aeronautical structural parts (FALCON. H2020-CS2-CFP04-2016-02. Grant Agreement 754274)

**Entity where project took place:** FUNDACION AITIIP

**City of entity:** ZARAGOZA, Aragon, Spain

**Name principal investigator (PI, Co-PI....):** Pere Castell Muixi; David Ponce; Pascual Gracia

**Nº of researchers:** 4

**Funding entity or bodies:**

CLEAN SKY (H2020-CS2-CFP04-2016-02)

**City funding entity:** BRUSELAS, Belgium

**Start-End date:** 01/05/2017 - 01/10/2018

**Total amount:** 496.250 €

**14 Name of the project:** High versatility and accurate tooling set produced in All-In-One machine for the cost efficiency Sub- Assembly, Functional Checks and Transport of the Morphing Winglet and Multifunctional Outer flaps. WINBOXTOOL(JTI-CS2-2016-CFP03-AIR-02-19. Grant agreement 737889)

**Entity where project took place:** FUNDACION AITIIP



**City of entity:** ZARAGOZA, Aragon, Spain

**Name principal investigator (PI, Co-PI....):** Pere Castell Muixi; Pascual Gracia; David Ponce

**Nº of researchers:** 8

**Funding entity or bodies:**

CLEAN SKY (H2020-CS2-CFP03-2016-01)

**Type of entity:** Associations and Groups

**City funding entity:** BRUSELAS, Belgium

**Start-End date:** 01/01/2017 - 31/08/2018

**Total amount:** 800.000 €

**15 Name of the project:** RECICLADO DE FIBRAS DE CARBONO MEDIANTE PIRÓLISIS PARA EL REFUERZO DE NUEVOS COMPOSITOS DE CARBONO

**Entity where project took place:** CSIC

**Type of entity:** State agency

**City of entity:** Madrid, Community of Madrid, Spain

**Nº of researchers:** 7

**Funding entity or bodies:**

Ministerio de Economía y Hacienda

**Type of entity:** CTM2013-48887-C2-2-R

**City funding entity:** Madrid, Community of Madrid, Spain

**Start-End date:** 01/09/2014 - 31/08/2017

**Total amount:** 109.917 €

**16 Name of the project:** ANÁLISIS Y OBTENCIÓN DE ALTERNATIVAS MATERIALES MINERALES, ORGÁNICAS Y PLÁSTICAS PARA EL LOGRO DE PLATOS DESTINADOS A LA PRÁCTICA DEPORTIVA OLÍMPICA TIRO AL PLATO QUE PRESENTEN MEJORES PRESTACIONES TÉCNICAS Y UN MAYOR RESPETO AL MEDIOAMBIENTE

**Entity where project took place:** FUNDACION AITIIP

**Nº of researchers:** 4

**Funding entity or bodies:**

Diputación General de Aragón

**Type of entity:** I+D+i

**City funding entity:** Zaragoza, Aragon, Spain

**Start-End date:** 01/01/2015 - 31/12/2016

**Total amount:** 191.347,76 €

**17 Name of the project:** DESARROLLO DE NUEVOS MATERIALES COMPUESTOS CON PIGMENTO FOTOLUMINISCENTE PARA PROCESOS DE TRANSFORMACIÓN DE PLÁSTICOS

**Entity where project took place:** FUNDACION AITIIP

**Nº of researchers:** 5

**Funding entity or bodies:**

Diputación General de Aragón

**Type of entity:** I+D+i

**City funding entity:** Zaragoza, Aragon, Spain

**Start-End date:** 01/01/2015 - 31/12/2016

**Total amount:** 84.674,24 €

**18 Name of the project:** ECOMESH PLUS: Maximizar el uso de la energía captada con los paneles solares híbridos ECOMESH

**Entity where project took place:** FUNDACION AITIIP

**City of entity:** ZARAGOZA, Aragon, Spain

**Name principal investigator (PI, Co-PI....):** José Antonio Dieste Marcial; Pere Castell Muixi

**Nº of researchers:** 5

**Funding entity or bodies:**

Gobierno de Aragón

**Type of entity:** I+D+i



**City funding entity:** Spain

**Start-End date:** 01/01/2015 - 31/12/2016

**Total amount:** 139.950 €

**19 Name of the project:** TECNOLOGÍAS DE MEJORA DE MATERIALES POLIMÉRICOS Y DISEÑO DE COMPONENTES PARA RODAMIENTOS DE ALTAS PRESTACIONES

**Entity where project took place:** FUNDACION AITIIP

**Nº of researchers:** 4

**Funding entity or bodies:**

Diputación General de Aragón

**Type of entity:** I+D+i

**City funding entity:** Zaragoza, Aragon, Spain

**Start-End date:** 01/01/2015 - 31/12/2016

**Total amount:** 204.830 €

**20 Name of the project:** DEVELOPMENT OF INJECTION AND BLOW EXTRUSION MOLDED BIODEGRADABLE AND MULTIFUNCTIONAL PACKAGES BY NANOTECHNOLOGY: IMPROVEMENT OF STRUCTURAL AND BARRIER PROPERTIES, SMART FEATURES AND SUSTAINABILITY (DIBBIOPACK)

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

**Geographical area:** European Union

**Degree of contribution:** Scientific coordinator

**Entity where project took place:** FUNDACION AITIIP

**City of entity:** ZARAGOZA, Aragon, Spain

**Name principal investigator (PI, Co-PI...):** PERE CASTELL MUIXI

**Funding entity or bodies:**

EUROPEAN COMMISSION

**Type of participation:** Co-ordinator

**Name of the programme:** NMP

**Start-End date:** 10/02/2012 - 09/02/2016

**Duration:** 4 years

**Sub-project amount:** 7.801.363,2 €

**Percentage as grant:** 5.703.898

**Dedication regime:** Part time

**Applicant's contribution:** SCIENTIFIC COORDINATION

**21 Name of the project:** GRUPOS DGA I+AITIIP

**Entity where project took place:** FUNDACION AITIIP

**City of entity:** ZARAGOZA, Aragon, Spain

**Nº of researchers:** 20

**Funding entity or bodies:**

Diputación General de Aragón

**Type of entity:** GRUPOS DGA

**City funding entity:** Zaragoza, Aragon, Spain

**Start-End date:** 01/09/2014 - 31/08/2015

**Total amount:** 11.704 €

**22 Name of the project:** PREPARACIÓN DE PROPUESTA EUROPEA PARA LA REHABILITACIÓN SOSTENIBLE DE EDIFICIOS RESIDENCIALES MEDIANTE MÓDULOS PREFABRICADOS LIGEROS

**Entity where project took place:** FUNDACION AITIIP

**City of entity:** ZARAGOZA, Aragon, Spain

**Nº of researchers:** 1

**Funding entity or bodies:**





Ministerio de Economía y Hacienda

**Type of entity:** Ministerio

**City funding entity:** Madrid, Community of Madrid, Spain

**Start-End date:** 01/10/2013 - 20/05/2015

**Total amount:** 24.171 €

**23 Name of the project:** COMPONENTES POLIMÉRICOS NANOADITIVADOS PARA AUTOMOCIÓN. AUTONANO

**Entity where project took place:** FUNDACION AITIIP

**Type of entity:** Technological Centre

**City of entity:** ZARAGOZA, Aragon, Spain

**Nº of researchers:** 20

**Start-End date:** 01/11/2012 - 30/09/2014

**Total amount:** 7.067.550 €

**24 Name of the project:** COMPONENTES POLIMÉRICOS NANOADITIVADOS PARA AUTOMOCIÓN -AUTONANO

**Entity where project took place:** FUNDACIÓN AITIIP

**City of entity:** ZARAGOZA, Aragon, Spain

**Start-End date:** 01/11/2011 - 30/09/2014

**Total amount:** 7.067.550 €

**25 Name of the project:** DISEÑO, EVALUACIÓN Y DESARROLLO DE ESTRUCTURAS AVANZADAS LIGERAS MEDIANTE PULTRUSIÓN PARA APLICACIÓN EN ANTENAS BTS

**Type of project:** Research and development, including transfer

**Geographical area:** National

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

**Entity where project took place:** Ministerio de Ciencia e Innovación. Investigación

**Type of entity:** R&D project

**City of entity:** Zaragoza, Aragon, Spain

**Name principal investigator (PI, Co-PI....):** Pere Castell Muixi; Javier Cortés

**Nº of researchers:** 11

**Name of the programme:** INNPACTO

**Start-End date:** 01/09/2012 - 31/08/2014

**Total amount:** 1.256.127 €

**Dedication regime:** Part time

**Applicant's contribution:** Coordinator of the technical part of the project

**26 Name of the project:** EMC2: NOVEL ELECTROACTIVE MATERIALS BASED ON GRAPHENE AND CARBON NANOTUBE COMPOSITES

**Type of project:** Research and development, including transfer

**Geographical area:** National

**Degree of contribution:** Researcher

**Entity where project took place:** Instituto de Carboquímica

**Type of entity:** State agency

**City of entity:** Zaragoza, Aragon, Spain

**Name principal investigator (PI, Co-PI....):** Wolfgang K Maser

**Nº of researchers:** 15

**Funding entity or bodies:**

Ministerio de Ciencia e Innovación. Investigación

**Type of entity:** MICINN (MAT2010-15026)

**City funding entity:** Madrid, Community of Madrid, Spain

**Start-End date:** 01/01/2011 - 31/12/2013

**Duration:** 3 years



**Dedication regime:** Part time

**Applicant's contribution:** Preparation of the proposal. Researcher developing graphene based composites and potential applications.

**27 Name of the project:** TRAINING ON THE NANOTECHNOLOGY ASPECTS OF PLASTIC COMPOSITES WITH ENHANCED PROPERTIES FOR USE IN HIGH STRENGTH APPLICATIONS

**Type of project:** Demonstration, pilot projects, conceptual formulations and design of processes and services  
**Geographical area:** European Union

**Degree of contribution:** Researcher

**Entity where project took place:** FUNDACION AITIIP

**City of entity:** Zaragoza, Aragon, Spain

**Name principal investigator (PI, Co-PI....):** Angel Fernandez

**N° of researchers:** 15

**Funding entity or bodies:**

Comisión Europea

**Type of entity:** Leonardo da Vinci Training Program.  
Grant DE/11/LLP LdV/TOI/147426

**City funding entity:** Madrid, Community of Madrid, Spain

**Name of the programme:** LEONARDO

**Start-End date:** 01/10/2011 - 30/09/2013

**Participating entity/entities:** FUNDACION AITIIP; GLONATECH; MARKETMENTORO LTD; STEINBEIS

**Dedication regime:** Part time

**Applicant's contribution:** Active trainer in the processing and preparation of composite materials based on CNTs. Active researcher.

**28 Name of the project:** MATERIALES NANOESTRUCTURADOS CONDUCTORES: PREPARACIÓN Y PROCESADO

**Type of project:** Research and development, including transfer  
**Geographical area:** Regional

**Degree of contribution:** Researcher

**Entity where project took place:** Instituto de Carboquímica  
**Type of entity:** State agency

**City of entity:** Zaragoza, Aragon, Spain

**Name principal investigator (PI, Co-PI....):** Ana M. Benito Calleja

**N° of researchers:** 4

**Start-End date:** 01/10/2010 - 30/09/2013

**Applicant's contribution:** Preparation of the proposal. Management of the research and supervision of the technicians participating in the proposal

**29 Name of the project:** M-RECT (Multiscale Reinforcement of Semi-crystalline Thermoplastic sheets and honeycombs) Grant agreement 246067

**Geographical area:** European Union

**Degree of contribution:** Scientific coordinator

**Entity where project took place:** NANOZAR SL

**City of entity:** Zaragoza, Aragon, Spain

**Name principal investigator (PI, Co-PI....):** Pere Castell Muixi

**N° of researchers:** 40

**Funding entity or bodies:**

Comisión Europea

**Type of entity:** FP7 NMP 2009-2.5.1 Grant 246067

**City funding entity:** Madrid, Community of Madrid, Spain

**Type of participation:** Co-ordinator



**Name of the programme:** FP7 NMP

**Code according to the funding entity:** Grant agreement 246067

**Start-End date:** 01/04/2010 - 31/03/2013

**Participating entity/entities:** BRISTOL UNIVERSITY; BUILDAIR INGENIERIA Y ARQUITECTURA, S.A.; Universitat Politècnica de Catalunya; EADS; FIBROLINE; IMMIG; LEUVEN UNIVERSITY; NANOZAR SL; SHEFFIELD UNIVERSITY; TEN CATE; UNIVERSITY OF ATHENS; UNIVERSITY OF CAMBRIDGE; VICTREX; VOLVO

**Total amount:** 6.846.900,83 €

**Relevant results:** Publication of the achieved results in high impact journals (J Mat Chem) and a patent application

**Dedication regime:** Full time

**Applicant's contribution:** Elaboration of the proposal at the two stages of the process. Principal investigator of Nanozar SI, responsible for the functionalization of CNTs to efficiently integrate in the matrix. Excellent results achieved that are collected in two high impact journals and a patent.

**30 Name of the project:** GRUPO DE NANOESTRUCTURAS DE CARBONO Y NANOTECNOLOGÍA. CNN. DGA. RECONOCIDO COMO GRUPO DE INVESTIGACIÓN DE EXCELENCIA, Y FINANCIACIÓN DE LAS LÍNEAS DE INVESTIGACIÓN.

**Type of project:** Research and development, including transfer

**Geographical area:** Regional

**Degree of contribution:** Researcher

**Entity where project took place:** Instituto de Carboquímica

**Type of entity:** State agency

**City of entity:** Zaragoza, Aragon, Spain

**Name principal investigator (PI, Co-PI....):** Maria Teresa Martínez

**Nº of researchers:** 10

**Funding entity or bodies:**

Diputación General de Aragón

**Type of entity:** Grupos DGA

**City funding entity:** Zaragoza, Aragon, Spain

**Start-End date:** 01/01/2010 - 31/12/2012

**Applicant's contribution:** Development of novel composite materials based on CNTs and graphene. Applications

**31 Name of the project:** NANOTRIM. INVESTIGACIÓN APLICADA A LA CREACION DE NANOCOMPUESTOS DE POLIOLEFINAS Y POLIAMIDAS REFORZADOS CON NANOTUBOS CERÁMICOS PARA SU APLICACIÓN EN COMPONENTES DEL INTERIOR DEL AUTOMÓVIL

**Type of project:** Research and development, including transfer

**Geographical area:** National

**Degree of contribution:** Researcher

**Entity where project took place:** FUNDACION AITIIP

**City of entity:** Zaragoza, Aragon, Spain

**Name principal investigator (PI, Co-PI....):** Angel Fernandez

**Nº of researchers:** 20

**Funding entity or bodies:**

FUNDACION AGENCIA ARAGONESA PARA LA INVESTIGACION Y EL DESARROLLO (ARAGON I+D)

**City funding entity:** Spain

**Start-End date:** 01/07/2010 - 30/06/2012

**Total amount:** 100.000 €

**Applicant's contribution:** Management of the project, supervision of technicians and preparation of deliverables.



- 32** **Name of the project:** DISPERSIONES DE NANOTUBOS DE CARBONO: DESARROLLO, CARACTERIZACIÓN Y PROCESADO  
**Type of project:** Research and development, including transfer  
**Geographical area:** Regional  
**Degree of contribution:** Researcher  
**Entity where project took place:** Instituto de Carboquímica  
**Type of entity:** State agency  
**City of entity:** Zaragoza, Aragon, Spain  
**Name principal investigator (PI, Co-PI....):** Maria Teresa Martínez  
**N° of researchers:** 8  
**Funding entity or bodies:** Diputación General de Aragón  
**Type of entity:** DGA PI086/08  
**City funding entity:** Zaragoza, Aragon, Spain  
**Start-End date:** 01/11/2008 - 30/10/2010  
**Duration:** 2 years  
**Relevant results:** Results collected in different collaborative projects.  
**Dedication regime:** Part time  
**Applicant's contribution:** Researcher developing novel CNTs based dispersions towards its integration in composite materials. Novel applications.
- 33** **Name of the project:** NANO-TPE™: Nanotubos de carbono para el desarrollo de elastómeros termoplásticos con capacidades de automonitorización de su estado de deformación  
**Type of project:** Research and development, including transfer  
**Geographical area:** National  
**Degree of contribution:** Researcher  
**Entity where project took place:** Instituto de Carboquímica  
**Type of entity:** State agency  
**City of entity:** Zaragoza, Aragon, Spain  
**Name principal investigator (PI, Co-PI....):** Ana M. Benito Calleja  
**N° of researchers:** 12  
**Funding entity or bodies:** Ministerio de Ciencia e Innovación. Investigación  
**Type of entity:** MICINN, MAT2007-66927-C02-01  
**City funding entity:** Madrid, Community of Madrid, Spain  
**Start-End date:** 01/01/2007 - 30/09/2010  
**Dedication regime:** Part time  
**Applicant's contribution:** Preparation of proposal. Management of the R&D project, supervision of PhD students and technicians. Development of elastomer composites reinforced with CNTs
- 34** **Name of the project:** UV-CURABLE YARN FINISHING WITH CARBON NANOTUBES TO OBTAIN YARNS WITH GOOD PERMANENCY OF CONDUCTIVE PROPERTIES  
**Type of project:** Research and development, including transfer  
**Geographical area:** European Union  
**Degree of contribution:** Scientific coordinator  
**Entity where project took place:** NANOZAR SL  
**City of entity:** Zaragoza, Aragon, Spain  
**Name principal investigator (PI, Co-PI....):** Pere Castell Muixí  
**N° of researchers:** 20  
**Funding entity or bodies:** Comisión Europea  
**Type of entity:** MNT-ERA-NET, MEC, Aprobado junio 2007, Ref: 004-BEFL UV-Tube  
**City funding entity:** Madrid, Community of Madrid, Spain  
**Name of the programme:** MNT-ERA net



**Start-End date:** 01/01/2008 - 31/05/2010

**Duration:** 3 years

**Participating entity/entities:** ACONDICIONAMIENTO TARRASENSE - LEITAT; CENTEXBEL; DEVAN; FERLAN; NANOZAR SL

**Total amount:** 701.900 €

**Dedication regime:** Part time

**Applicant's contribution:** Preparation of the proposal. Preparation of CNT based dispersions to their integration in textile yarns.

- 35 Name of the project:** GRUPO DE NANOESTRUCTURAS DE CARBONO Y NANOTECNOLOGÍA. CNN. DGA. RECONOCIDO COMO GRUPO DE INVESTIGACIÓN DE EXCELENCIA, Y FINANCIACIÓN DE LAS LÍNEAS DE INVESTIGACIÓN. Referencia de grupo (Según Resolución de 18 de abril de 2008, BOA nº 55, de 09/05/2008)

**Entity where project took place:** Instituto de Carboquímica

**Type of entity:** State agency

**City of entity:** Zaragoza, Aragon, Spain

**Name principal investigator (PI, Co-PI....):** Maria Teresa Martínez

**Nº of researchers:** 12

**Funding entity or bodies:**

Diputación General de Aragón

**Type of entity:** Grupos DGA

**City funding entity:** Zaragoza, Aragon, Spain

**Start-End date:** 01/01/2008 - 31/12/2009

- 36 Name of the project:** NANOCONDPOL": NANOMATERIALES MULTIFUNCIONALES AVANZADOS BASADOS EN NANOTUBOS DE CARBONO Y MATRICES POLÍMEROS CONDUCTORES. DESARROLLO, ESTRUCTURA Y PROPIEDADES Y PROCESAMIENTO.

**Type of project:** Research and development, including transfer

**Geographical area:** National

**Degree of contribution:** Researcher

**Entity where project took place:** Instituto de Carboquímica

**Type of entity:** State agency

**City of entity:** Zaragoza, Aragon, Spain

**Name principal investigator (PI, Co-PI....):** Wolfgang K Maser

**Nº of researchers:** 15

**Funding entity or bodies:**

Ministerio de Ciencia e Innovación. Investigación

**Type of entity:** MEC. (MAT2006-13167-C02-02)

**City funding entity:** Madrid, Community of Madrid, Spain

**Type of participation:** Others

**Start-End date:** 01/10/2006 - 30/09/2009

**Dedication regime:** Part time

**Applicant's contribution:** Preparation of proposal, supervision of PhD students and technicians. Development of novel electroactive materials based on CNTs and graphene.

- 37 Name of the project:** GRUPO DE NANOESTRUCTURAS DE CARBONO Y NANOTECNOLOGÍA. CNN. DGA (DIPUTACIÓN GENERAL DE ARAGÓN) RECONOCIDO COMO GRUPO DE INVESTIGACIÓN DE EXCELENCIA, Y FINANCIACIÓN DE LAS LÍNEAS DE INVESTIGACIÓN

**Type of project:** Research and development, including transfer

**Geographical area:** Regional

**Degree of contribution:** Researcher

**Entity where project took place:** Instituto de Carboquímica

**Type of entity:** State agency

**City of entity:** Zaragoza, Aragon, Spain

**Name principal investigator (PI, Co-PI....):** Maria Teresa Martínez

**Nº of researchers:** 10**Funding entity or bodies:**

Diputación General de Aragón

**Type of entity:** Grupos DGA**City funding entity:** Zaragoza, Aragon, Spain**Start-End date:** 01/01/2006 - 31/12/2007**Duration:** 2 years**Dedication regime:** Full time**Applicant's contribution:** Supervision of PhD students and technicians. Management of different R&D projects. Publication of results, participation on international conferences.**38 Name of the project:** SÍNTESIS DE NUEVOS MATERIALES COMPUESTOS MULTIFUNCIONALES NANOTUBOS DE CARBONO/POLIANILINA PARA APLICACIONES EN OPTOELECTRÓNICA**Type of project:** Research and development, including transfer**Geographical area:** Regional**Degree of contribution:** Researcher**Entity where project took place:** Instituto de Carboquímica**Type of entity:** State agency**City of entity:** Zaragoza, Aragon, Spain**Nº of researchers:** 5**Funding entity or bodies:**

Diputación General de Aragón

**Type of entity:** DGA PIP015/2005**City funding entity:** Zaragoza, Aragon, Spain**Start-End date:** 01/11/2005 - 31/12/2007**Duration:** 2 years**Dedication regime:** Part time**Applicant's contribution:** Supervision of PhD students and technicians. Management of R&D activities.**39 Name of the project:** CARACTERIZACIÓN ESTRUCTURAL DE MATERIALES MEDIANTE DIFRACCIÓN DE RAYOS X**Entity where project took place:** Instituto de Carboquímica**Type of entity:** State agency**City of entity:** Zaragoza, Aragon, Spain**Name principal investigator (PI, Co-PI...):** Wolfgang Maser**Nº of researchers:** 5**Funding entity or bodies:**

Consejo Superior de Investigaciones Científicas. I3P

**Start-End date:** 16/03/2004 - 15/03/2007**40 Name of the project:** APPLICATION OF POWDER COATINGS ON POLYOLEFINS**Type of project:** Research and development, including transfer**Geographical area:** European Union**Degree of contribution:** Coordinator of total project, network or consortium**Entity where project took place:** Technische Universiteit Eindhoven**Type of entity:** University**City of entity:** Eindhoven, Holland**Name principal investigator (PI, Co-PI...):** Pere Castell Muixi**Nº of researchers:** 5**Start-End date:** 02/04/2003 - 15/03/2004**Duration:** 1 year**Dedication regime:** Part time**Applicant's contribution:** Application of R&D results into plastic materials. Transference of technology, management of R&D resources.



- 41 Name of the project:** KINETIC STUDIES OF UV CURABLE POWER COATINGS  
**Type of project:** Research and development, including transfer  
**Geographical area:** European Union  
**Degree of contribution:** Coordinator of total project, network or consortium  
**Entity where project took place:** Technische Universiteit Eindhoven  
**Type of entity:** University  
**City of entity:** Eindhoven, Holland  
**Name principal investigator (PI, Co-PI....):** Pere Castell Muixi  
**N° of researchers:** 5  
**Funding entity or bodies:** Technische Universiteit Eindhoven  
**Type of entity:** University  
**City funding entity:** Eindhoven, Holland  
**Start-End date:** 02/04/2003 - 15/03/2004  
**Duration:** 1 year  
**Dedication regime:** Full time  
**Applicant's contribution:** Management of a technical project funded by the University. Supervision of PhD students and technicians. Conferences, dissemination activities, preparation of manuscripts.
- 42 Name of the project:** SURFACE MODIFICATION OF POLYPROPYLENE USING PHOTOINITIATORS  
**Type of project:** Research and development, including transfer  
**Geographical area:** European Union  
**Degree of contribution:** Coordinator of total project, network or consortium  
**Entity where project took place:** Technische Universiteit Eindhoven  
**Type of entity:** University  
**City of entity:** Eindhoven, Holland  
**Name principal investigator (PI, Co-PI....):** Pere Castell Muixi  
**N° of researchers:** 5  
**Start-End date:** 01/04/2002 - 01/04/2003  
**Duration:** 1 year  
**Dedication regime:** Part time  
**Applicant's contribution:** Surface modification of polyolefins. Supervision of PhD students.
- 43 Name of the project:** SÍNTESIS DE POLIMEROS TERMOESTABLES CON APLICACIONES DEFINIDAS  
**Type of project:** Research and development, including transfer  
**Geographical area:** National  
**Degree of contribution:** Researcher  
**Entity where project took place:** Universitat Rovira i Virgili  
**Type of entity:** University  
**City of entity:** Tarragona, Catalonia, Spain  
**Name principal investigator (PI, Co-PI....):** Virginia Cádiz Deleito  
**N° of researchers:** 15  
**Funding entity or bodies:** Comisión Interministerial de Ciencia y Tecnología  
**Type of entity:** MAT1999-1113  
**City funding entity:** Madrid, Community of Madrid, Spain  
**Start-End date:** 01/09/1997 - 31/12/2002  
**Duration:** 5 years  
**Dedication regime:** Part time  
**Applicant's contribution:** Pre-doctoral researcher developing thermosetting epoxy resins.
- 44 Name of the project:** ORIENTACIÓN DE CRISTALES LÍQUIDOS POR EL EFECTO DE CAMPOS MAGNÉTICOS  
**Type of project:** Research and development, including transfer  
**Geographical area:** Non EU International  
**Degree of contribution:** Researcher



**Entity where project took place:** University of Florida  
**Type of entity:** University

**City of entity:** Gainesville, United States of America

**Name principal investigator (PI, Co-PI....):** Elliot Douglas

**Nº of researchers:** 4

**Start-End date:** 01/08/2000 - 30/11/2000  
**Duration:** 4 months

**Relevant results:** Orientation of epoxy resins in magnetic fields.

**Dedication regime:** Full time

**Applicant's contribution:** Orientation of liquid crystalline epoxy resins under magnetic fields in the National Laboratory of Tallahassee in Florida. Excellent results that were included in some publications.

**45 Name of the project:** NUEVOS INICIADORES DE CURADO DE RESINAS EPOXI DE UTILIZACION EN RECUBRIMIENTOS EN POLVO

**Type of project:** Research and development, including transfer  
**Geographical area:** National

**Degree of contribution:** Researcher

**Entity where project took place:** Universitat Rovira i Virgili  
**Type of entity:** University

**City of entity:** Tarragona, Catalonia, Spain

**Name principal investigator (PI, Co-PI....):** Angels Serra i Albet

**Nº of researchers:** 6

**Funding entity or bodies:**

Comisión Interministerial de Ciencia y Tecnología  
**Type of entity:** CICYT-PETRI (0420-OP)

**City funding entity:** Madrid, Community of Madrid, Spain

**Start-End date:** 01/05/1998 - 30/09/1999  
**Duration:** 1 year - 5 months

**Participating entity/entities:** Du Pont Ibérica, S.L.; Universitat Rovira i Virgili

**Relevant results:** Starting of a new research line with a completely new initiator for epoxy resins. Several publications followed the presented by the applicant.

**Dedication regime:** Part time

**Applicant's contribution:** Development of novel initiators for epoxy resins. The results initiated a novel research line in the University resulting in several PhD thesis and articles in relevant journals. A patent application was issued and transferred to Du Pont.

**46 Name of the project:** SÍNTESIS, ENTRECruzAMIENTO Y ORIENTACIÓN DE RESINAS EPOXI CON UNIDADES MESOGÉNICAS

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

**Degree of contribution:** Researcher

**Entity where project took place:** Universitat Rovira i Virgili  
**Type of entity:** University

**City of entity:** Tarragona, Catalonia, Spain

**Name principal investigator (PI, Co-PI....):** Virginia Cádiz Deleito

**Nº of researchers:** 10

**Funding entity or bodies:**

Comisión Interministerial de Ciencia y Tecnología  
**Type of entity:** MAT1999-1113

**City funding entity:** Madrid, Community of Madrid, Spain

**Start-End date:** 01/09/1997 - 31/08/1999  
**Duration:** 2 years

**Applicant's contribution:** Pre-doctoral researcher developing new epoxy resin based materials.



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

- 1** **Name of the project:** ELABORACIÓN DE PROBETAS DE POLIPROPILENO REFORZADAS CON NANOTUBOS DE CARBONO DE CAPA MÚLTIPLE  
**Type of project:** Research and development, including transfer  
**Geographical area:** National  
**Degree of contribution:** Scientific coordinator  
**Name principal investigator (PI, Co-PI....):** Pere Castell Muixí  
**Nº of researchers:** 4  
**Participating entity/entities:** NANOZAR SL  
**Funding entity or bodies:** FUNDACION ASCAMM  
**Type of entity:** Technological Centre  
**City funding entity:** Cerdanyola del Vallés, Catalonia, Spain  
**Start date:** 01/12/2009  
**Duration:** 3 months
- 2** **Name of the project:** NANOCOMPOSITES DE POLIURETANOS Y NANOTUBOS DE CARBONO: REFUERZO MECÁNICO  
**Type of project:** Research and development, including transfer  
**Geographical area:** National  
**Degree of contribution:** Scientific coordinator  
**Name principal investigator (PI, Co-PI....):** Pere Castell Muixí  
**Nº of researchers:** 4  
**Participating entity/entities:** NANOZAR SL  
**Funding entity or bodies:** Merquinsa  
**Type of entity:** Business  
**City funding entity:** Montmeló, Catalonia, Spain  
**Start date:** 01/02/2008  
**Duration:** 6 months
- 3** **Name of the project:** CNT HOMOGENEOUS DISPERSION INTO POLYMERS TARGETED AT WINDOW FILM APPLICATIONS  
**Type of project:** Research and development, including transfer  
**Geographical area:** European Union  
**Degree of contribution:** Researcher  
**Name principal investigator (PI, Co-PI....):** Wolfgang K. Maser  
**Nº of researchers:** 6  
**Participating entity/entities:** NANOZAR SL  
**Funding entity or bodies:** BEKAERT COMPOSITES, S.A.  
**City funding entity:** Spain  
**Start date:** 01/11/2005  
**Duration:** 1 year
- 4** **Name of the project:** NEW CURING INITIATORS FOR POWDER COATINGS EPOXY RESINS  
**Degree of contribution:** Researcher  
**Name principal investigator (PI, Co-PI....):** Angels Serra i Albet  
**Nº of researchers:** 5  
**Participating entity/entities:** Universitat Rovira i Virgili  
**Funding entity or bodies:** Du Pont Ibérica, S.L.  
**Type of entity:** Business



**City funding entity:** Barcelona, Catalonia, Spain

**Start date:** 01/05/1998

**Duration:** 1 year - 6 months

**5 Name of the project:** ESTUDIO DE ADITIVOS EN POLIESTERES ESPUMADOS

**Degree of contribution:** Researcher

**Name principal investigator (PI, Co-PI....):** Angels Serra Albet

**Nº of researchers:** 5

**Participating entity/entities:** Universitat Rovira i Virgili

**Funding entity or bodies:**

Plaessa

**Type of entity:** Business

**City funding entity:** Tarragona, Catalonia, Spain

**Start date:** 01/02/1998

**Duration:** 2 years

## Results

### Industrial and intellectual property

**1 Title registered industrial property:** METHOD FOR OBTAINING A COMPOSITE MATERIAL FORMED BY CARBON NANOMATERIAL AND POLYETHER ETHER KETONE

**Entity holder of rights:** NANOZAR SL

**Nº of application:** SOLICITUD WO2013/190162 A1

**Date of register:** 27/12/2013

**Conferral date:** 20/06/2016

**2 Title registered industrial property:** PROCEDIMIENTO PARA LA OBTENCIÓN DE UN MATERIAL COMPUESTO FORMADO POR NANOMATERIAL DE CARBONO Y POLIÉTER ÉTER CETONA

**Inventors/authors/obtainers:** Pere Castell Muixí

**Entity holder of rights:** NANOZAR SL

**Nº of application:** P201230962

**Country of inscription:** Spain, Aragon

**Date of register:** 20/06/2012



## Scientific and technological activities

### Scientific production

#### Publications, scientific and technical documents

- 1 Luis C Herrera-Ramirez; Pere Castell; Miguel Castillo-Rodriguez; Angel Fernández; Roberto Guzman de Villoria. The Effect of a Semi-Industrial Masterbatch Process on the Carbon Nanotube Agglomerates and Its Influence in the Properties of Thermoplastic Carbon Nanotube Composites. JOURNAL OF POLYMER SCIENCE, PART B: POLYMER PHYSICS. 55, pp. 189 - 197. Materials views, 14/10/2016.

**Type of production:** Scientific paper **Format:** Journal  
**Relevant publication:** Yes
- 2 Pere Castell; Victor Peinado; Lidia García; Ángel Fernández. Effect of Extrusion on the Mechanical and Rheological Properties of a Reinforced Poly(Lactic Acid): Reprocessing and Recycling of Biobased Materials. Materials. 8, pp. 7106 - 7117. MDPI, 01/10/2015.

**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No  
**Impact source:** ISI **Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY  
**Impact index in year of publication:** 2.651 **Journal in the top 25%:** Yes  
**Position of publication:** 55 **No. of journals in the cat.:** 260  
**Relevant publication:** Yes
- 3 Pere Castell Muixí; Marina Galià Clua; Àngels Serra i Albet. LIQUID-CRYSTALLINE THERMOSETS FROM LIQUID-CRYSTALLINE EPOXY RESINS CONTAINING BISAZOMETHINEBIPHENYLENE MESOGENS IN THE CENTRAL CORE: COPOLYMERIZATION WITH A NONMESOMORPHIC EPOXY RESIN. JOURNAL OF POLYMER SCIENCE. PART A: POLYMER CHEMISTRY. 42, pp. 3631 - 3643. WILEY, 2004.

**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - POLYMER SCIENCE  
**Impact index in year of publication:** 3.919 **Journal in the top 25%:** Yes  
**Position of publication:** 8 **No. of journals in the cat.:** 78  
**Relevant publication:** Yes
- 4 Pere Castell Muixí; Marina Galià Clua; Àngels Serra i Albet. NEW LCT'S FROM LIQUID CRYSTALLINE BISAZOMETHYNIC EPOXY RESINS WITH NAPHTHYLENE DISRUPTORS IN THE CENTRAL CORE. JOURNAL OF POLYMER SCIENCE. PART A: POLYMER CHEMISTRY. 41, pp. 1536 - 1544. WILEY, 2003.

**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - POLYMER SCIENCE  
**Impact index in year of publication:** 3.919 **Journal in the top 25%:** Yes  
**Position of publication:** 8 **No. of journals in the cat.:** 78  
**Relevant publication:** Yes
- 5 Pere Castell Muixí; Àngels Serra i Albet; Marina Galià Clua; Marta Giamberini; Cossimo Carfagna. ANISOTROPIC THERMOSETS FROM LIQUID CRYSTALLINE AZOMETHINIC EPOXY RESINS AND PRIMARY AROMATIC DIAMINES. JOURNAL OF POLYMER SCIENCE. PART A: POLYMER CHEMISTRY. 41, pp. 1 - 12. WILEY, 2002.



**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 3.919  
**Position of publication:** 8

**Format:** Journal  
**Category:** Science Edition - POLYMER SCIENCE  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 8

**Relevant publication:** Yes

- 6** Pere Castell Muixí; Àngels Serra i Albet; Marina Galià Clua; Virginia Cádiz Deleito. SYNTHESIS OF NEW EPOXY LIQUID CRYSTALLINE MONOMERS WITH AZO GROUPS IN THE CENTRAL MESOGENIC CORE. CROSSLINKING WITH AMINE. MACROMOLECULAR CHEMISTRY AND PHYSICS. 202, pp. 1649 - 1657. WILEY, 2001.

**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 2.361  
**Position of publication:** 20

**Format:** Journal  
**Category:** Science Edition - POLYMER SCIENCE  
**Journal in the top 25%:** No  
**No. of journals in the cat.:** 78

**Relevant publication:** Yes

- 7** Pere Castell Muixí; Àngels Serra i Albet; Marina Galià Clua; Xavier Ramis; Josep M Salla. STUDY OF LANTHANIDE TRIFLATES AS NEW CURING INITATORS FOR DGEBA. POLYMER. 41, pp. 8465 - 8474. ELSEVIER, 2000.

**Type of production:** Scientific paper  
**Impact source:** ISI  
**Impact index in year of publication:** 3.438  
**Position of publication:** 14

**Format:** Journal  
**Category:** Science Edition - POLYMER SCIENCE  
**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 78

**Relevant publication:** Yes

- 8** Lidia García-Quiles; Arantzazu Valdés; Ángel Fernández Cuello; Alfonso Jiménez; María del Carmen Garrigós; Pere Castell. Reducing off-Flavour in Commercially Available Polyhydroxyalkanoate Materials by Autooxidation through Compounding with Organoclays. Polymers. 11 - 945, MDPI, 29/05/2019.

**Type of production:** Scientific paper  
**Corresponding author:** Yes

**Format:** Journal

- 9** Pere Castell; Ángel Fernández Cuello; Lidia García-Quiles. Sustainable Materials with Enhanced Mechanical Properties Based on Industrial Polyhydroxyalkanoates Reinforced with Organomodified Sepiolite and Montmorillonite. Polymers. 11 - 696, MDPI, 15/04/2019.

**Type of production:** Scientific paper  
**Corresponding author:** Yes

**Format:** Journal

- 10** Juan P Fernández Blázquez; Roberto Guzmán de Villoria; Pere Castell; María Isabel Martín; Angel Alvaredo. Non-Isothermal Crystallization Behavior of PEEK/Graphene Nanoplatelets Composites from Melt and Glass States. Polymers. 11 - 124, MDPI, 12/01/2019.

**Type of production:** Scientific paper  
**Corresponding author:** No

**Format:** Scientific and technical document or report

- 11** Isabel Claveria; Daniel Elduque; Aleida Lostalé; Ángel Fernández; Pere Castell; Carlos Javierre. Analysis of self-lubrication enhancement via PA66 strategies: Texturing and nano-reinforcement with ZrO<sub>2</sub> and graphene. Tribology International. Elsevier, 02/11/2018.

**Type of production:** Scientific paper  
**Corresponding author:** No

**Format:** Journal



- 12** Gema del Prado; Javier Pascual; Pere Castell; Ignacio Mahillo; Diana Molina-Manso; Jaime Esteban; José Antonio Puértolas. Influence of carbon nanotubes structures embedded in UHMWPE on bacterial adherence. *International Journal of Polymeric Materials and Polymeric Biomaterials*. 67 - 16, pp. 934 - 941. Taylor & Francis, 01/06/2018.  
**Type of production:** Scientific paper **Format:** Journal  
**Corresponding author:** No
- 13** LC Herrera-Ramirez; P Castell; JP Fernández-Blázquez; A. Fernández-Cuello; R Guzmán de Villoria. How do graphite nanoplatelets help to toughen polypropylene composites?. *Composites Science and Technology*. Elsevier, 2015.  
**Type of production:** Scientific paper **Format:** Journal  
**Position of signature:** 2 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee  
**Impact source:** SCOPUS **Category:** MATERIALS SCIENCE, COMPOSITES  
**Impact index in year of publication:** 3.633 **Journal in the top 25%:** Yes  
**Position of publication:** 1 **No. of journals in the cat.:** 24
- 14** Victor Peinado; Lidia Garcia; Angel Fernandez; Pere Castell. LIGHTWEIGHT MEDIUM-SIZED PARTS MADE OF FOAMED HDPE PROCESSED VIA EXTRUSION-BLOW MOULDING. ANALYSIS OF PARISON FORMATION. *Advances in Mechanical Engineering*. Under evaluation, Hidawi, 02/09/2014.  
**Type of production:** Scientific paper **Format:** Journal
- 15** Lidia García; Pere Castell; Victor Peinado; Ángel Fernández. IMPROVEMENT OF MECHANICAL PROPERTIES OF POLY(LACTIC ACID) BY THE INTEGRATION OF SEPIOLITE NANOCLOCKS. EFFECT OF ULTRASONICATION ON CLAY DISPERSION. *JOURNAL MATERIALS RESEARCH INNOVATIONS*. 18 - S2, pp. 85 - 89. Maney Publishing, 2014.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** SCOPUS **Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY  
**Impact index in year of publication:** 0.321 **Journal in the top 25%:** No  
**Position of publication:** 222 **No. of journals in the cat.:** 241
- 16** Lidia Garcia; Victor Peinado; Ángel Fernández; Pere Castell. NOVEL LIGHTWEIGHT BIOCOMPATIBLE MATERIALS BASED ON POLY(LACTIC ACID) REINFORCED WITH DIFFERENT LOADS OF SEPIOLITE AND FOAMED WITH CHEMICAL BLOWING AGENT FOR PACKAGING APPLICATIONS. *Composites Science and Technology*. In press, Elsevier, 2014.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES  
**Impact index in year of publication:** 3.328 **Journal in the top 25%:** Yes  
**Position of publication:** 1 **No. of journals in the cat.:** 24  
**Relevant results:** <http://dx.doi.org/10.1016/j.compscitech.2014.06.025>
- 17** Alejandro Ansón-Casaos; JA Puértolas; Javier Hernández-Ferrer; FJ Pascual; Pere Castell Muixi; AM Benito; WK Maser; MT Martinez. The effect of gamma-irradiation on few-layered graphene materials. *APPLIED SURFACE SCIENCE*. 301, pp. 264 - 272. 2014.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - MATERIALS SCIENCE, COATINGS & FILMS  
**Impact index in year of publication:** 2.112 **Journal in the top 25%:** Yes  
**Position of publication:** 2 **No. of journals in the cat.:** 17

- 18** Pere Castell Muixí; Maria J. Martínez-Morlanes; Pablo J. Alonso; María T. Martínez; José A. Puértolas. A NOVEL APPROACH TO THE CHEMICAL STABILIZATION OF GAMMA IRRADIATED ULTRAHIGH MOLECULAR WEIGHT POLYETHYLENE USING ARC-DISCHARGE MULTI-WALLED CARBON NANOTUBES. JOURNAL OF MATERIALS SCIENCE. 48, pp. 6549 - 6557. 2013.

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 2.015

**Position of publication:** 60

**Relevant results:** In press

**Format:** Journal

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

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

**No. of journals in the cat.:** 232

- 19** Gema del Prado; Javier Pascual; Pere Castell; D Molina-Manso; I Mahillo; José A Puertolas; E Gomez-Barrena; J Esteban. BACTERIAL ADHERENCE ON MWCNT/ UHMWPE COMPOSITES: SEARCHING NEW CLINICAL APPLICATIONS FOR MULTI-WALL CARBON NANOTUBES STRUCTURES. ACTA BIOMATERIALIA. Under revision, 2013.

**Type of production:** Scientific paper

**Degree of contribution:** Author or co-author of article in journal without external admissions assessment committee

**Impact source:** ISI

**Impact index in year of publication:** 5.093

**Position of publication:** 4

**Format:** Journal

**Category:** ENGINEERING, BIOMEDICAL

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

**No. of journals in the cat.:** 79

- 20** Pere Castell Muixí; Manuela Cano Galey; Wolfgang K. Maser; Ana M. Benito. COMBINATION OF TWO DISPERSANTS AS A VALUABLE STRATEGY TO PREPARE IMPROVED POLYVINYL ALCOHOL/CARBON NANOTUBE COMPOSITES. COMPOSITES SCIENCE AND TECHNOLOGY. 80, pp. 101 - 107. ELSEVIER, 2013.

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 3.144

**Position of publication:** 1

**Format:** Journal

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

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

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

- 21** José Miguel González-Dominguez; Pere Castell Muixí \*; Ana M. Benito; Wolfgang K. Maser; María T. Martínez. COVALENT FUNCTIONALIZATION OF MWCNTS WITH POLY(P-PHENYLENE SULPHIDE) CHAINS: A ROUTE TOWARDS THE EFFICIENT INTEGRATION BY IN SITU POLYMERIZATION. JOURNAL OF MATERIALS CHEMISTRY. 22 - 39, pp. 21285 - 21297. ROYAL SOCIETY OF CHEMISTRY, 2012.

**Type of production:** Scientific paper

**Impact source:** ISI

**Impact index in year of publication:** 5.968

**Position of publication:** 17

**Relevant results:** \*corresponding author

**Format:** Journal

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

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

**No. of journals in the cat.:** 231

- 22** Pere Castell Muixí; Cristina Vallés; Wolfgang K. Maser; Ana M. Benito. HIGHLY SENSITIVE ELECTROCHEMICAL DETECTION OF BIOMOLECULES USING REDUCED GRAPHENE OXIDE PAPERS AS ELECTRODES. JOURNAL OF PHYSICAL CHEMISTRY C. ACS, 2012.

**Type of production:** Scientific paper

**Impact source:** ISI

**Format:** Journal

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



**Impact index in year of publication:** 4.805  
**Position of publication:** 23

**Journal in the top 25%:** Yes  
**No. of journals in the cat.:** 231

**Relevant results:** Under revision 2012

- 23** David Nuñez; R. González; Ana M. Benito; Cristina Vallés; Pere Castell Muixí; D. Guadarrama; J. ARAGÓN; Wolfgang K. Maser. INSIGHTS INTO HYDROXYAPATITE - CARBON NANOTUBE / GRAPHENE OXIDE SELF-ASSEMBLY AND ITS BIOACTIVE MECHANISMS. BIOMATERIALS. ELSEVIER, 2012.

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

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

**Impact index in year of publication:** 7.404

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

**Position of publication:** 2

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

**Relevant results:** Under revision 2012

- 24** Pere Castell Muixí; Cristina Vallés; Wolfgang K. Maser; Ana M. Benito. MICROWAVE ASSISTED REDUCTION OF GRAPHENE OXIDE. STUDY OF DIFFERENT REDUCTANTS. JOURNAL OF PHYSICAL CHEMISTRY C. ACS, 2012.

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

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

**Impact index in year of publication:** 4.805

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

**Position of publication:** 23

**No. of journals in the cat.:** 231

**Relevant results:** Under revision 2012

- 25** Maria J. Martínez-Morlanes; Pere Castell Muixí; Pablo J. Alonso; María T. Martínez; José A. Puértolas. MWCNTs ACTING LIKE RADICAL SCAVENGER IN GAMMA IRRADIATED UHMWPE/MWCNT NANOCOMPOSITES. CARBON. 50, pp. 2442 - 2452. ELSEVIER, 2012.

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

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

**Impact index in year of publication:** 5.378

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

**Position of publication:** 21

**No. of journals in the cat.:** 231

- 26** Raquel Sainz; Pere Castell Muixí; Wolfgang K. Maser; Ana M. Benito. NANOTUBES FIBERS MADE BY COAGULATION SPINNING. POLYMER. ELSEVIER, 2012.

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** Science Edition - POLYMER SCIENCE

**Impact index in year of publication:** 3.438

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

**Position of publication:** 14

**No. of journals in the cat.:** 78

**Relevant results:** Under revision 2012

- 27** Olivia Menes; Manuela Cano Galey; Adolfo Benedito; Pere Castell Muixí; Wolfgang K. Maser; Ana M. Benito. THE EFFECT OF ULTRA-THIN GRAPHITE ON THE MORPHOLOGY AND PHYSICAL PROPERTIES OF THERMOPLASTIC POLYURETHANES. COMPOSITES SCIENCE AND TECHNOLOGY. 72, pp. 1595 - 1601. ELSEVIER, 2012.

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

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

**Impact index in year of publication:** 3.144

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

**Position of publication:** 1**No. of journals in the cat.:** 24

- 28** Sonia Melendi; Pere Castell Muixí; S. Bonyadi; María T. Martínez; Malcom R. Mackley. THE FUNCTIONALIZATION OF CARBON NANOTUBES USING OSCILLATORY FLOW MIXING. CHEMICAL ENGINEERING SCIENCE. 84, pp. 544 - 551. ELSEVIER, 2012.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Chemical Engineering (miscellaneous)  
**Impact index in year of publication:** 2.431 **Journal in the top 25%:** Yes  
**Position of publication:** 26 **No. of journals in the cat.:** 133
- 29** Maria J. Martínez-Morlanes; Pere Castell Muixí; Vanesa Martínez-Nogués; José A. Puértolas; María T. Martínez. EFFECTS OF GAMMA IRRADIATION ON UHMWPE/MWNTS NANOCOMPOSITES. COMPOSITES SCIENCE AND TECHNOLOGY. 71, pp. 282 - 288. ELSEVIER, 2011.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES  
**Impact index in year of publication:** 3.144 **Journal in the top 25%:** Yes  
**Position of publication:** 1 **No. of journals in the cat.:** 24
- 30** J.M. Bielsa; Cristina Crespo; José L. Pelegay; Pere Castell Muixí; Wolfgang K. Maser; Ana M. Benito. ON THE PROCESSING DEPENDENCY OF POLYMER FILLER INTERACTIONS IN COMPOSITES OF MWCNTS AND SEBS. Proceedings of the 9th Fall Rubber Colloquium KHK 2010. 2011.  
**Type of production:** Scientific paper **Format:** Journal
- 31** Johann G. Meier; Cristina Crespo; N. Moussaif; Pere Castell Muixí; Raquel Sainz; Wolfgang K. Maser; Ana M. Benito. PROCESSING DEPENDENCY OF PERCOLATION THRESHOLD OF MWCNTS IN A THERMOPLASTIC ELASTOMERIC BLOCK COPOLYMER. POLYMER. 52, pp. 1788 - 1796. ELSEVIER, 2011.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - POLYMER SCIENCE  
**Impact index in year of publication:** 3.438 **Journal in the top 25%:** Yes  
**Position of publication:** 14 **No. of journals in the cat.:** 78
- 32** Wolfgang K. Maser; Pablo Jiménez Manero; Pere Castell Muixí; Raquel Sainz Vaqué; Alejandro Ansón-Casaos; María T. Martínez; Ana M. Benito. CARBON NANOTUBE EFFECT ON NANOSCALE MORPHOLOGY IN WATER DISPERSIBLE POLYANILINE COMPOSITES. Journal of Physical Chemistry B. 114, pp. 1579 - 1585. ACS, 2010.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - CHEMISTRY, PHYSICAL  
**Impact index in year of publication:** 3.696 **Journal in the top 25%:** Yes  
**Position of publication:** 32 **No. of journals in the cat.:** 134
- 33** José M. González-Dominguez; Pere Castell Muixí; Alejandro Ansón-Casaos; Wolfgang K. Maser; Ana M. Diez Pascual; Marián Gómez; María T. Martínez. INTEGRATION OF BLOCK COPOLYMER-WRAPPED SINGLE-WALL CARBON NANOTUBES INTO A TRIFUNCTIONAL EPOXY RESIN. INFLUENCE ON THERMAL PERFORMANCE. POLYMER DEGRADATION AND STABILITY. 95, pp. 2065 - 2075. ELSEVIER, 2010.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - POLYMER SCIENCE  
**Impact index in year of publication:** 2.679 **Journal in the top 25%:** Yes  
**Position of publication:** 16 **No. of journals in the cat.:** 78





- 34** Nathalie González-Vidal; Antxón Martínez de Ilarduya; Sebastián Muñoz-Guerra; Pere Castell Muixí; María T. Martínez. SYNTHESIS AND PROPERTIES OF POLY(HEXAMETHYLENETEREPHTHALATE) /MULTIWALL CARBON NANOTUBES NANOCOMPOSITES. COMPOSITES SCIENCE AND TECHNOLOGY. 70, pp. 789 - 796. ELSEVIER, 2010.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - MATERIALS SCIENCE, COMPOSITES  
**Impact index in year of publication:** 3.144 **Journal in the top 25%:** Yes  
**Position of publication:** 1 **No. of journals in the cat.:** 24
- 35** José M. González-Dominguez; Pere Castell Muixí; Alejandro Ansón-Casaos; Wolfgang K. Maser; Ana M. Benito; María T. Martínez. BLOCK COPOLYMER ASSISTED DISPERSION OF SINGLE WALLED CARBON NANOTUBES AND INTEGRATION INTO A TRIFUNCTIONAL EPOXY. JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY. 9, pp. 6104 - 6112. AMERICAN SCIENTIFIC PUBLISHERS, 2009.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY  
**Impact index in year of publication:** 1.563 **Journal in the top 25%:** No  
**Position of publication:** 90 **No. of journals in the cat.:** 231
- 36** Pere Castell Muixí; M.J. Medel; María T. Martínez; José A. Puértolas. EFFECTS OF GAMMA IRRADIATION ON POLYPROPYLENE SINGLE-WALLED CARBON NANOTUBES NANOCOMPOSITES. JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY. 9, pp. 6055 - 6063. AMERICAN SCIENTIFIC PUBLISHERS, 2009.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY  
**Impact index in year of publication:** 1.563 **Journal in the top 25%:** No  
**Position of publication:** 90 **No. of journals in the cat.:** 231
- 37** Wolfgang K. Maser; Pablo Jiménez Manero; Nicholas O. Payne; Roderick L. Sheperd; Pere Castell Muixí; Mark in Het Panhuis; Ana M. Benito. NANOFIBRILAR-POLYANILINE/CARBON NANOTUBE COMPOSITES: AQUEOUS DISPERSIONS AND FILMS. JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY. 9, pp. 6157 - 6163. AMERICAN SCIENTIFIC PUBLISHERS, 2009.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY  
**Impact index in year of publication:** 1.563 **Journal in the top 25%:** No  
**Position of publication:** 90 **No. of journals in the cat.:** 231
- 38** Pablo Jiménez Manero; Pere Castell Muixí; Wolfgang K. Maser; María T. Martínez; Ana M. Benito. NANOFIBRILLAR POLYANILINE: DIRECT ROUTE TO CARBON NANOTUBES WATER DISPERSIONS IN HIGH CONCENTRATIONS. MACROMOLECULAR RAPID COMMUNICATIONS. 30, pp. 6104 - 6112. WILEY, 2009.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - POLYMER SCIENCE  
**Impact index in year of publication:** 4.596 **Journal in the top 25%:** Yes  
**Position of publication:** 6 **No. of journals in the cat.:** 78
- 39** Alejandro Ansón-Casaos; B. Ashrafi; Pere Castell Muixí; Ana M. Díez-Pascual; Marián Gómez; Gary Ellis; José Miguel González-Domínguez. TOWARDS SWCNT-BASED HIGH PERFORMANCE MATERIALS: THE CASE OF EPOXY AND PEEK. ICCM INTERNATIONAL CONFERENCES ON COMPOSITE MATERIALS. 2009.



**Type of production:** Scientific paper

**Format:** Journal

- 40** Ion Fernández; Antxon Santamaria; Maria E. Muñoz; Pere Castell Muixí. ANALYSIS OF A MECHANICAL RELAXATION AT LOW FREQUENCIES IN PHENOXY/ORGANOCLAY NANOCOMPOSITES. EUROPEAN POLYMER JOURNAL. 43, pp. 3171 - 3176. ELSEVIER, 2007.

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** Science Edition - POLYMER SCIENCE

**Impact index in year of publication:** 2.739

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

**Position of publication:** 17

**No. of journals in the cat.:** 78

- 41** Pere Castell Muixí; Marielle Wouters; G. de With; Hartmut Fischer. STUDY OF WETTABILITY AND IMPROVEMENT OF ADHESION OF UV CURABLE POWDER COATINGS ON POLYPROPYLENE SUBSTRATES. JOURNAL OF APPLIED POLYMER SCIENCE. 106, pp. 3348 - 3358. WILEY, 2007.

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** Science Edition - POLYMER SCIENCE

**Impact index in year of publication:** 1.289

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

**Position of publication:** 40

**No. of journals in the cat.:** 78

- 42** Cristina Valles; Manuel Perez-Mendoza; G. Legac; Pere Castell Muixí; Wolfgang K Maser; Maria T. Martínez; Ana M. Benito. TOWARDS HELICAL AND Y-SHAPED CARBON NANOTUBES. THE ROLE OF SULPHUR IN CVD PROCESSES. NANOTECHNOLOGY. 17, pp. 4292 - 4299. IOPSCIENCE, 2006.

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

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

**Impact index in year of publication:** 3.979

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

**Position of publication:** 32

**No. of journals in the cat.:** 231

- 43** Pere Castell Muixí; Marielle Wouters; G. de With; Hartmut Fischer. KINETIC STUDIES OF AN UV CURABLE POWDER COATING USING PHOTO-DSC, REAL-TIME FTIR AND RHEOLOGY. JOURNAL OF COATINGS TECHNOLOGY AND RESEARCH. 4, pp. 411 - 423. SPRINGERLINK, 2004.

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** Science Edition - MATERIALS SCIENCE, COATINGS & FILMS

**Impact index in year of publication:** 1.121

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

**Position of publication:** 10

**No. of journals in the cat.:** 18

- 44** Pere Castell Muixí; Marielle Wouters; G. de With; Hartmut Fischer; Frank Huijs. SURFACE MODIFICATION OF POLYPROPYLENE BY PHOTO-INITIATORS: IMPROVEMENT OF ADHESION AND WETTABILITY. JOURNAL OF APPLIED POLYMER SCIENCE. WILEY, 2004.

**Type of production:** Scientific paper

**Format:** Journal

**Impact source:** ISI

**Category:** Science Edition - POLYMER SCIENCE

**Impact index in year of publication:** 1.289

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

**Position of publication:** 40

**No. of journals in the cat.:** 78

- 45** Pere Castell Muixí; Marielle Wouters; G. de With; Hartmut Fischer. PHOTO-GRAFTING OF BENZOPHENONE DERIVATIVES ON POLYPROPYLENE: IMPROVEMENT OF ADHESION OF UV CURABLE POWDER COATINGS. EUROPEAN COATINGS CONFERENCE: MODERN COATINGS FOR PLASTICS SUBSTRATES I. Vincentz Network, 2003.

**Type of production:** Scientific paper

**Format:** Journal



- 46** Pere Castell Muixí; Àngels Serra i Albet; Marina Galià Clua; Virginia Cádiz Deleito. **CROSSLINKING OF TRIMETILLIMIDE GLYCIDYL ESTERS DERIVATES.** JOURNAL OF APPLIED POLYMER SCIENCE. 72, pp. 537 - 542. WILEY, 1999.  
**Type of production:** Scientific paper **Format:** Journal  
**Impact source:** ISI **Category:** Science Edition - POLYMER SCIENCE  
**Impact index in year of publication:** 1.289 **Journal in the top 25%:** No  
**Position of publication:** 40 **No. of journals in the cat.:** 78
- 47** Marielle Wouters; Pere Castell Muixí; Barteld de Ruiter. **OPTIMISATION OF WETTABILITY AND ADHESION OF A UV CURABLE POWDER COATING ON POLYPROPYLENE SUBSTRATES.** Basics and Applications of Photopolymerization Reactions, Vol.1. Ressign, 2010. ISBN 978-81-308-0386-9  
**Type of production:** Book chapter **Format:** Book
- 48** Wolfgang K. Maser; Ana M. Benito; Pere Castell Muixí; Rquel Sainz; María T. Martínez; Mohamed Naffakh; C. Marco; Gary Ellis; Marián Gómez. **CARBON NANOTUBE COMPOSITE MATERIALS: OPPORTUNITIES AND PROCESSING ISSUES.** NATO Science for Peace and Security Series B: Physics and Biophysics: Nanostructured Materials for Advanced Technological Applications. pp. 181 - 198. NATO, 2009.  
**Type of production:** Book chapter **Format:** Book
- 49** Marielle Wouters; Pere Castell Muixí. **WETTABILITY ASPECTS AND THE IMPROVEMENT OF ADHESION OF UV CURABLE POWDER COATINGS ON POLYPROPYLENE SUBSTRATES. CONTACT ANGLE, WETTABILITY AND ADHESION.** VOL 5. 5, pp. 207 - 227. Mittal KL, 2008. ISBN 978-1-60119-997-3  
**Type of production:** Book chapter **Format:** Book
- 50** Pere Castell Muixí. **NANOCIENCIA Y NANOTECNOLOGÍA EN ESPAÑA. NANOTUBOS DE CARBONO. NANOCIENCIA Y NANOTECNOLOGÍA EN ESPAÑA. UN ANÁLISIS DE LA SITUACIÓN PRESENTE Y DE LAS PERSPECTIVAS DE FUTURO.** Phantoms funddation, 2008.  
**Type of production:** Scientific-technical report **Format:** Scientific and technical document or report

### Works submitted to national or international conferences

- 1** **Title of the work:** WORKING WITH BIOPOLYMERS: OVERVIEW OF PROCESS TROUBLESHOOTING  
**Name of the conference:** ICIT&APT 2017  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** Participatory - invited/keynote talk **Reasons for participation:** Upon invitation  
**City of event:** Ljubljana, Slovenija, Slovenia  
**Date of event:** 25/04/2017  
**End date:** 26/04/2017  
**Organising entity:** TECOS **Type of entity:** R&D Centre  
**City organizing entity:** Ljubljana, Slovenija, Slovenia  
**Type of contribution:** Popular science article  
Lidia Garcia; Cristina Muñoz-Alcalde; Angel Fernandez; Pere Castell. 25/04/2017.
- 2** **Title of the work:** LARGE COMPONENTS MULTIMATERIAL HYBRID MANUFACTURING  
**Name of the conference:** ICIT &APT 2017  
**Geographical area:** Non EU International  
**Type of participation:** Participatory - invited/keynote talk **Reasons for participation:** Upon invitation  
**City of event:** Ljubljana, Slovenija, Slovenia



**Date of event:** 25/04/2017

**End date:** 26/04/2017

**Organising entity:** TECOS

**Type of entity:** R&D Centre

**City organizing entity:** Ljubljana, Slovenia, Slovenia

Jose Antonio Dieste; David Ponce; Pere Castell; Lidia Garcia.

- 3** **Title of the work:** A novel graphene/UHMWPE composite for arthroplastic applications  
**Name of the conference:** Graphhin Graphene Industry- Challenges & opportunities  
**Type of event:** Conference  
**Type of participation:** Participatory - oral communication  
**Reasons for participation:** Review before acceptance  
**Corresponding author:** No  
**City of event:** Zaragoza, Aragon, Spain  
**Date of event:** 03/12/2015  
**Organising entity:** FUNDACION PHANTOMS  
Javier Pascual; Pablo J Alonso; Lidia Quiles; Pere Castell; José A Puértolas. "A novel graphene/UHMWPE composite for arthroplastic applications".
- 4** **Title of the work:** The role of graphite nanoplatelets and carbon nanotubes on the enhanced fracture toughness and electrical conductivity of polypropylene composites  
**Name of the conference:** 5th edition of Graphene Conference (Graphene 2015)  
**Type of event:** Conference  
**Geographical area:** Non EU International  
**Type of participation:** Participatory - oral communication  
**City of event:** Bilbao, Spain  
**Date of event:** 10/03/2015  
**Organising entity:** FUNDACION PHANTOMS  
**Type of contribution:** Scientific paper  
LC Herrera Ramirez; P Castell; A Fernández Cuello; R Guzmán de Villoria.
- 5** **Title of the work:** Polymer Packaging for Food Industry  
**Name of the conference:** PolyRegion workshop  
**Geographical area:** European Union  
**Type of participation:** Participatory - invited/keynote talk  
**City of event:** Celje, Slovenia  
**Date of event:** 11/02/2015  
**Organising entity:** Visoka šola za tehnologijo polimerov  
**Type of entity:** University  
**City organizing entity:** Celje, Slovenia  
Pere Castell.
- 6** **Title of the work:** Analysis of the Fracture Mechanism of Graphite Nanoplatelets/Polypropylene Composite  
**Name of the conference:** 7th Asia-Europe Symposium on Processing and Properties of Reinforced Polymers (AESP7)  
**Type of event:** Conference  
**Geographical area:** European Union  
**Type of participation:** Participatory - oral communication  
**City of event:** Madrid, Spain  
**Date of event:** 04/02/2015  
**Organising entity:** FUNDACION IMDEA MATERIALES  
**Type of contribution:** Scientific paper  
LC Herrera Ramirez; P Castell; JP Fernández Blázquez; A Fernández Cuello; R Guzman de Villoria.



- 7** **Title of the work:** Effective Industrial Masterbatch Production of Graphite Nanoplatelet (GNP)/Polypropylene Nanocomposites by Melt Extrusion Processes  
**Name of the conference:** MRS 2014  
**City of event:** Boston, United States of America  
**Date of event:** 30/11/2014  
**Organising entity:** MIT  
Luis Carlos Herrera; Pere Castell; Juan Pedro Fernandez; Angel Fernandez; Roberto Guzman. "Effective Industrial Masterbatch Production of Graphite Nanoplatelet (GNP)/Polypropylene Nanocomposites by Melt Extrusion Processes".
- 8** **Title of the work:** Mechanical Characterization of Compounded Graphite Nanoplatelet Thermoplastic Composites  
**Name of the conference:** 16th European Conference on Composite Materials  
**City of event:** SEVILLE, Andalusia, Spain  
**Date of event:** 22/06/2014  
**End date:** 26/06/2014  
**Organising entity:** Universidad de Sevilla **Type of entity:** University  
Roberto Guzman; Luis Herrera; JP Fernández-Blázquez; Pere Castell; Ángel Fernández.
- 9** **Title of the work:** Effective industrial masterbatch production of graphite nanoplatelet (GNP)/polypropylene nanocomposites by melt extrusion processes  
**Name of the conference:** GRAPHENE 2014  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster **Reasons for participation:** Open access  
**City of event:** TOULUSSE, France  
**Date of event:** 06/05/2014  
**End date:** 09/05/2014  
**Organising entity:** PHANTOMS FOUNDATION  
**City organizing entity:** TOULUSSE, France  
Luis C Herrera; Pere Castell; J.P Fernández; Ángel Fernández; Roberto Guzman.  
"EFFECTIVE INDUSTRIAL MASTERBATCH PRODUCTION OF GRAPHITE NANOPATELET (GNP)/POLYPROPYLENE NANOCOMPOSITES BY MELT EXTRUSION PROCESSES".
- 10** **Title of the work:** Extrusion-blow moulding analysis of foamed HDPE and its effect on parison formation for packaging applications  
**Name of the conference:** ICIT & MPT 2014  
**City of event:** Ljubljana, Slovenija, Slovenia  
**Date of event:** 14/04/2014  
**End date:** 18/04/2014  
**Organising entity:** TECOS – Slovenian Tool and Die Development Center  
**City organizing entity:** Ljubljana, Extra-Regio, Slovenia  
Pere Castell; Victor Peinado; Lidia García; Ángel Fernández.
- 11** **Title of the work:** Novel Technologies for Packaging  
**Name of the conference:** POLYREGION  
**City of event:** Ljubljana, Slovenija, Slovenia  
**Date of event:** 10/04/2014  
**Organising entity:** VSTP  
**City organizing entity:** Ljubljana, Slovenija, Slovenia  
Pere Castell; Victor Peinado; Berta Gonzalvo.



- 12** **Title of the work:** Development of injection and blow extrusion molded biodegradable and multifunctional packages by nanotechnology: improvement of structural and barrier properties, smart features and sustainability  
**Name of the conference:** Euronanoforum 2013  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** Dublin, Ireland  
**Date of event:** 18/06/2013  
**End date:** 20/06/2013  
**Organising entity:** European Commission  
**City organizing entity:** Brussels, Belgium  
Victor Peinado; Pere Castell Muixi; Angel Fernández Cuello; E Passaglia; R Spinello; C de Monte; F Cicogna; S Coiai; A Lazzeri; P Cinelli; S Fiori; J Perez; J Hewwit; C Konkel; Berta Gonzalvo. "Development of injection and blow extrusion molded biodegradable and multifunctional packages by nanotechnology: improvement of structural and barrier properties, smart features and sustainability".
- 13** **Title of the work:** Novel lightweight biocompatible materials based on polylactic acid reinforced with different nanoadditives for packaging applications produced by blow-extrusion moulding  
**Name of the conference:** Euronanoforum 2013  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** Dublin, Ireland  
**Date of event:** 18/06/2013  
**End date:** 20/06/2013  
**Organising entity:** European Commission  
**City organizing entity:** Brussels, Belgium  
Pere Castell Muixi; Victor Peinado; Lidia Garcia; Angel Fernández Cuello. "Novel lightweight biocompatible materials based on polylactic acid reinforced with different nanoadditives for packaging applications produced by blow-extrusion moulding".
- 14** **Title of the work:** Graphene/UHMWPE composite: static and dynamic mechanical behaviour  
**Name of the conference:** International Workshop on NANOCARBON COMPOSITES 2012 From fundamental to industrial applications  
**Type of event:** Conference **Geographical area:** European Union  
**Type of participation:** 'Participatory - poster  
**City of event:** PATERNA, Valencian Community, Spain  
**Date of event:** 04/10/2012  
**Organising entity:** AIMPLAS Instituto Tecnológico **Type of entity:** Innovation and Technology Centres del Plástico  
**City organizing entity:** PATERNA, Valencian Community, Spain  
Francisco J. Pascual; Pere Castell Muixi; Wolfgang K. Maser; Ana M. Benito; José A. Puértolas.
- 15** **Title of the work:** Tribological behaviour of MWCNT/UHMWPE composites  
**Name of the conference:** International Workshop on NANOCARBON COMPOSITES 2012 From fundamental to industrial applications  
**Type of event:** Conference **Geographical area:** European Union  
**Type of participation:** 'Participatory - poster  
**City of event:** PATERNA, Valencian Community, Spain  
**Date of event:** 04/10/2012  
**Organising entity:** AIMPLAS Instituto Tecnológico **Type of entity:** Innovation and Technology Centres del Plástico  
**City organizing entity:** PATERNA, Valencian Community, Spain



Francisco J. Pascual; Vanesa Martínez-Nogués; María José Martínez-Morlanes; Pere Castell Muixí; María Teresa Martínez; José A. Puértolas.

- 16** **Title of the work:** CARACTERIZACIÓN MECÁNICA Y ESTUDIO FRACTOGRÁFICO DEL POLIETILENO DE ULTRA ALTO PESO MOLECULAR REFORZADOS CON NANOTUBOS DE CARBONO MEDIANTE ENSAYOS SMALL PUNCH  
**Name of the conference:** XIII CONGRESO NACIONAL DE PROPIEDADES MECÁNICAS DE SÓLIDOS. PMS2012  
**Type of event:** Conference **Geographical area:** National  
**Type of participation:** Participatory - oral communication  
**City of event:** ALCOY, Valencian Community, Spain  
**Date of event:** 2012  
**Organising entity:** Universidad Politécnica de Valencia **Type of entity:** University  
Pere Castell Muixí; Vanesa Martínez-Nogués; Javier Pascual; Francisco J. Medel; S. Kurtz; José A. Puértolas.
- 17** **Title of the work:** EFFECT OF GAMMA-IRRADIATION ON GRAPHENE OBTAINED FROM DIFFERENT SOURCES  
**Name of the conference:** GRANADA12 GRAPHENE NANOSCIENCE: FROM DIRAC PHYSICS TO APPLICATIONS  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** GRANADA, Andalusia, Spain  
**Date of event:** 2012  
**Organising entity:** Universidad de Granada **Type of entity:** University  
Pere Castell Muixí; Javier Hernández Ferrer; Javier Pascual; Pablo J. Alonso; Ana M. Benito; Wolfgang K. Maser; María T. Martínez; José A. Puértolas.
- 18** **Title of the work:** FAST REDUCTION OF GRAPHENE OXIDE USING MICROWAVE- ASSISTED APPROACHES  
**Name of the conference:** NANOTEC 12  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** BRIGHTON, United Kingdom  
**Date of event:** 2012  
**Organising entity:** The British Carbon Group  
Ana M. Benito; Pere Castell Muixí; Cristina Vallés; Araceli López; Wolfgang K. Maser.
- 19** **Title of the work:** GRAPHENE PAPER ELECTRODES FOR VOLTAMMETRIC SENSING APPLICATIONS  
**Name of the conference:** CHEMONTUBES 2012  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** ARCACHON, France  
**Date of event:** 2012  
**Organising entity:** CNRS **Type of entity:** Associations and Groups  
Pere Castell Muixí; Cristina Vallés; J. David Nuñez; Wolfgang K. Maser; Ana M. Benito.
- 20** **Title of the work:** INSIGHTS INTO NANOSTRUCTURE HYDROXYAPATITE –MULTIWALLED CARBON NANOTUBES/ GRAPHENE OXIDE BIOCOSCOMPOSITES: INTEGRATION AND BIOACTIVITY  
**Name of the conference:** NANOTEC 12  
**Type of event:** Conference **Geographical area:** Non EU International



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

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

**Date of event:** 2012

**Organising entity:** The British Carbon Society

David Nuñez; Ramón González; Ana M. Benito; Pere Castell Muixí; J. Aragón; Wolfgang K. Maser.

**21 Title of the work:** MECHANICAL PROPERTIES OF A NOVEL GRAPHENE /ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE COMPOSITES. EFFECT OF GAMMA IRRADIATION

**Name of the conference:** GRANADA12 GRAPHENE NANOSCIENCE: FROM DIRAC PHYSICS TO APPLICATIONS

**Type of event:** Conference

**Geographical area:** Non EU International

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

**City of event:** GRANADA, Andalusia, Spain

**Date of event:** 2012

**Organising entity:** Universidad de Granada

**Type of entity:** University

Javier Pascual; Pere Castell Muixí; Wolfgang K. Maser; Ana M. Benito; José A. Puértolas.

**22 Title of the work:** MICROWAVE ASSISTED REDUCTION OF GRAPHENE OXIDE: STUDY OF DIFFERENT REDUCTANTS

**Name of the conference:** CHEMONTUBES 2012

**Type of event:** Conference

**Geographical area:** Non EU International

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

**City of event:** ARCACHON, France

**Date of event:** 2012

**Organising entity:** CNRS

**Type of entity:** Associations and Groups

Pere Castell Muixí; Cristina Vallés; Araceli López; Wolfgang K. Maser; Ana M. Benito.

**23 Title of the work:** REDUCED GRAPHENE OXIDE: PROCESSING INTO PAPER-LIKE MATERIALS AND USE AS ELECTROCHEMICAL ELECTRODES

**Name of the conference:** NANOTEC 12

**Type of event:** Conference

**Geographical area:** Non EU International

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

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

**Date of event:** 2012

**Organising entity:** The British Carbon Group

Wolfgang K. Maser; Pere Castell Muixí; Cristina Vallés; David Nuñez; Ana M. Benito.

**24 Title of the work:** ANCHORING NANOHYDROXYAPATITE TO FUNCTIONALIZED CARBON NANOTUBE / GRAPHENE OXIDE FOR BIOACTIVE BONE SCAFFOLDS

**Name of the conference:** GDR-I GNT 2011

**Type of event:** Conference

**Geographical area:** Non EU International

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

**City of event:** ECULLY, France

**Date of event:** 2011

**Organising entity:** GDRi

David Nuñez; Ramón González; Ana M. Benito; Cristina Vallés; Pere Castell Muixí; Dainelys Guadarrama; J. Aragón; Wolfgang K. Maser.

**25 Title of the work:** GRAPHENE/PEDOT VOLTAMMETRIC MICROSENSORS

**Name of the conference:** NANOTEC 11

**Type of event:** Conference

**Geographical area:** Non EU International





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

**City of event:** NANTES, France

**Date of event:** 2011

**Organising entity:** GDRi

Pere Castell Muixí; Cristina Vallés; Araceli López; Wolfgang K. Maser; Ana M. Benito.

**26 Title of the work:** HYDROXYAPATITE – CARBON NANOTUBE NANOSTRUCTURED BIOCOMPOSITE FOR TISSUE ENGINEERING SCAFFOLDS

**Name of the conference:** NANOTEC 11

**Type of event:** Conference

**Geographical area:** Non EU International

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

**City of event:** NANTES, France

**Date of event:** 2011

**Organising entity:** GDRi

David Nuñez; Ana M. Benito; Pere Castell Muixí; Dainelys Guadarrama; Nayrim Brizuela; Mónica López; Ramón González; Wolfgang K. Maser.

**27 Title of the work:** MWNT'S ACTING LIKE FREE RADICAL SCAVENGERS IN GAMMA IRRADIATED UHMWPE/MULTIWALL CARBON NANOTUBES NANOCOMPOSITES

**Name of the conference:** THE 5TH UHMWPE INTERNATIONAL MEETING. UHMWPE FOR ARTHROPLASTY: FROM POWDER TO DEBRIS

**Type of event:** Conference

**Geographical area:** Non EU International

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

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

**Date of event:** 2011

Maria J. Martínez-Morlanes; Pablo J. Alonso; Pere Castell Muixí; María T. Martínez; José A Puértolas.

**28 Title of the work:** SOLUTION AND IN-SITU POLYMERIZATION PROCESSING OF EXPANDED GRAPHITE/THERMOPLASTIC POLYURETHANE NANOCOMPOSITES

**Name of the conference:** NANOTEC 11

**Type of event:** Conference

**Geographical area:** Non EU International

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

**City of event:** NANTES, France

**Date of event:** 2011

**Organising entity:** GDRi

Manuela Cano Galey; Olivia Menes; Pere Castell Muixí; Enrique Giménez; Wolfgang K. Maser; Ana M. Benito.

**29 Title of the work:** WET-SPUN ALGINATE-MULTI-WALLED CARBON NANOTUBE FIBERS: ELECTRICAL AND MECHANICAL PROPERTIES

**Name of the conference:** NANOTEC 11

**Type of event:** Conference

**Geographical area:** Non EU International

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

**City of event:** NANTES, France

**Date of event:** 2011

**Organising entity:** GDRi

Pere Castell Muixí; Ana M. Benito; Araceli Lopez; Holy Warren; Marc in Het Panhuis; Frederic Barreau; Christophe Olivier; Olivier Chauvet; Wolfgang K. Maser.

**30 Title of the work:** A COMPARATIVE STUDY OF CNT AQUEOUS DISPERSIONS USING DIFFERENT SURFACTANTS BY DYNAMIC LIGHT SCATTERING AND UV-VIS SPECTROSCOPY

**Name of the conference:** CHEMONTUBES 2010



**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** ARCACHON, France  
**Date of event:** 2010  
**Organising entity:** CNRS **Type of entity:** Associations and Groups  
Pere Castell Muixí; Araceli López Cabrero; Wolfgang K. Maser; Ana M. Benito.

**31 Title of the work:** ALGINATE-CARBON NANOTUBE FIBERS  
**Name of the conference:** NANOTEC 10  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** OXFORD, United Kingdom  
**Date of event:** 2010  
**Organising entity:** British Carbon Group  
Ana M. Benito; Pere Castell Muixí; Araceli López Cabrero; Raquel Sainz Vaqué; Wolfgang K. Maser.

**32 Title of the work:** ALGINATE-CARBON NANOTUBES FIBERS MADE BY COAGULATION SPINNING  
**Name of the conference:** CHEMONTUBES 2010  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** Participatory - oral communication  
**City of event:** ARCACHON, France  
**Date of event:** 2010  
**Organising entity:** CNRS **Type of entity:** Associations and Groups  
Raquel Sainz Vaqué; Pere Castell Muixí; Wolfgang K. Maser; Ana M. Benito.

**33 Title of the work:** CARBON NANOTUBES AND GRAPHENE: DISPERSIONS AND PROCESSING INTO FUNCTIONAL SURFACE MATERIALS  
**Name of the conference:** IV WORKSHOP NANOCIENCIA Y NANOTECNOLOGÍA ANALÍTICA (IV NYNA 2010)  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** Participatory - invited/keynote talk  
**City of event:** ZARAGOZA, Aragon, Spain  
**Date of event:** 2010  
**Organising entity:** Universidad de Zaragoza **Type of entity:** University  
Wolfgang K. Maser; Cristina Vallés; Pablo Jiménez Jiménez Manero; Pere Castell Muixí; Araceli López Cabrero; Ana M. Benito.

**34 Title of the work:** DEPENDENCIA DEL PUNTO DE PERCOLACIÓN DE NANOTUBOS DE CARBONO EN BLOCK CO-POLIMEROS EN FUNCIÓN DEL TIPO DE PROCESADO  
**Name of the conference:** XI CONGRESO NACIONAL DE MATERIALES  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** ZARAGOZA, France  
**Date of event:** 2010  
**Organising entity:** Universidad de Zaragoza **Type of entity:** University  
Johann G. Meier; Cristina Crespo; N. Moussahif; Pere Castell Muixí; Raquel Sainz Vaqué; Wolfgang K. Maser; Ana M. Benito.

**35 Title of the work:** EFECTO DE LA RADIACIÓN GAMMA SOBRE PEUAPM/MWNTS NANOCOMPOSITES  
**Name of the conference:** XI CONGRESO NACIONAL DE MATERIALES  
**Type of event:** Conference **Geographical area:** Non EU International



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

**City of event:** ZARAGOZA, France

**Date of event:** 2010

**Organising entity:** Universidad de Zaragoza

**Type of entity:** University

María J. Martínez-Morlanes; Pere Castell Muixí; Vanesa Martínez; Ana M. Benito; María T. Martínez Martínez; José Antonio Puértolas.

**36 Title of the work:** FIBERS OF ALGINATE-CARBON NANOTUBES MADE BY COAGULATION SPINNING

**Name of the conference:** CHEMONTUBES 2010

**Type of event:** Conference

**Geographical area:** Non EU International

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

**City of event:** ARCACHON, France

**Date of event:** 2010

**Organising entity:** CNRS

**Type of entity:** Associations and Groups

Raquel Sainz Vaqué; Pere Castell Muixí; Wolfgang K. Maser; Ana M. Benito.

**37 Title of the work:** PERCOLATION ON NANOTUBES IN BLOCK COPOLYMERS WITH CYLINDRICAL PHASE MORPHOLOGY

**Name of the conference:** CHEMONTUBES 2010

**Type of event:** Conference

**Geographical area:** Non EU International

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

**City of event:** ARCACHON, France

**Date of event:** 2010

**Organising entity:** CNRS

**Type of entity:** Associations and Groups

Johann G. Meier; Cristina Crespo; N. Moussahif; Pere Castell Muixí; Wolfgang K. Maser; Ana M. Benito.

**38 Title of the work:** STUDY OF CARBON NANOTUBE AQUEOUS DISPERSIONS

**Name of the conference:** NANOTEC 10

**Type of event:** Conference

**Geographical area:** Non EU International

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

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

**Date of event:** 2010

**Organising entity:** British Carbon Group

Pere Castell Muixí; Araceli López Cabrero; Ana M. Benito; Wolfgang K. Maser.

**39 Title of the work:** THE NANOSTRUCTURE AND MECHANICS OF MWCNT REINFORCED TPES FOR APPLICATION AS LARGE STRAIN-MECHANICAL GAUGES

**Name of the conference:** SLONANO 2010

**Type of event:** Conference

**Geographical area:** Non EU International

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

**City of event:** Ljubljana, Slovenia

**Date of event:** 2010

**Organising entity:** Jozef Stefan Institute

**Type of entity:** University

Johann G. Meier; Cristina Crespo; Pilar Gonzalvo; Pere Castell Muixí; Miguel Ángel Jiménez; Wolfgang K. Maser; Ana M. Benito.

**40 Title of the work:** CNT/POLYANYLINE COMPOSITE MATERIALS WITH ENHANCED WATER SOLUBILITY

**Name of the conference:** FRONTIERS IN POLYMER SCIENCE

**Type of event:** Conference

**Geographical area:** Non EU International

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



**City of event:** MAINZ, Germany

**Date of event:** 2009

**Organising entity:** ELSEVIER

**Type of entity:** Business

Pablo Jiménez Manero; Ana M. Benito; Pere Castell Muixí; María T. Martínez; Mark in Het Panhuis; Wolfgang K. Maser.

**41 Title of the work:** INFLUENCE OF GAMMA IRRADIATION ON CARBON NANOTUBES/REINFORCED ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE

**Name of the conference:** NANOSPAIN 2009

**Type of event:** Conference

**Geographical area:** Non EU International

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

**City of event:** ZARAGOZA, Aragon, Spain

**Date of event:** 2009

**Organising entity:** Red española de nanotecnología **Type of entity:** Associations and Groups

Pere Castell Muixí; Maria J. Martínez-Morlanes; Vanesa Martínez; Ana M. Benito; Wolfgang K. Maser; José A Puértolas; María T. Martínez.

**42 Title of the work:** KINETIC STUDY ON THERMAL PERFORMANCE OF BLOCK COPOLYMER-SWNT-TRIFUNCTIONAL EPOXY NANOCOMPOSITES

**Name of the conference:** V INTERNATIONAL CONFERENCE ON SCIENCE AND TECHNOLOGY OF COMPOSITE MATERIALS

**Type of event:** Conference

**Geographical area:** Non EU International

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

**City of event:** DONOSTI, Basque Country, Spain

**Date of event:** 2009

**Organising entity:** EUROPEAN CENTRE FOR NANOSTRUCTURED POLYMERS

José Miguel González-Dominguez; Alejandro Ansón-Casaos; Pere Castell Muixí; María T. Martínez.

**43 Title of the work:** NON-COVALENT FUNCTIONALIZATION STRATEGY FOR SINGLE WALLED CARBON NANOTUBES INCORPORATION INTO EPOXY RESINS

**Name of the conference:** EUROPEAN POLYMER CONGRESS 09

**Type of event:** Conference

**Geographical area:** Non EU International

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

**City of event:** GRAZ, Austria

**Date of event:** 2009

**Organising entity:** EUROPEAN POLYMER FEDERATION

**Type of entity:** Associations and Groups

José Miguel González-Dominguez; Pere Castell Muixí; Alejandro Ansón-Casaos; Ana M. Benito; Wolfgang K. Maser; Mohamed Naffakh; Ana M. Diez-Pascual; Marián A. Gómez; María T. Martínez.

**44 Title of the work:** ON THE REINFORCEMENT AND DIELECTRIC RESPONSE OF SEBS-MWNTS-COMPOSITES

**Name of the conference:** CARBON NANOTUBE (CNT) COMPOSITES. 4TH INTERNATIONAL CONFERENCE ON CARBON BASED NANOCOMPOSITES

**Type of event:** Conference

**Geographical area:** Non EU International

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

**City of event:** HAMBURG, Germany

**Date of event:** 2009

Johann G. Meier; Pilar Brusel; N. Moussaif; Cristina Crespo; Wolfgang K. Maser; Raquel Sainz Vaqué; Pere Castell Muixí; Ana M. Benito.



- 45** **Title of the work:** REINFORCED ULTRA HIGH MOLECULAR WEIGHT COMPOSITE BY CARBON NANOTUBE AND GAMMA IRRADIATION  
**Name of the conference:** THE 4TH UHMWPE INTERNATIONAL MEETING. UHMWPE FOR ARTHROPLASTY: FROM POWDER TO DEBRIS  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** Participatory - oral communication  
**City of event:** TORINO, Italy  
**Date of event:** 2009  
Maria J. Martínez-Morlanes; Pere Castell Muixí; Vanesa Martínez; Ana M. Benito; Wolfgang K. Maser; José A Puértolas; María T. Martínez.
- 46** **Title of the work:** STUDY OF REINFORCEMENT AND ELECTRICAL PERCOLATION IN NANOCOMPOSITES BASED ON MULTI-WALL CARBON NANOTUBES AND A TPE BLOCK-COPOLYMER (SEBS)  
**Name of the conference:** FIFTH INTERNATIONAL ECNP CONFERENCE ON NANOSTRUCUTRED POLYMERS AND NANOCOMPOSITES  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** Participatory - oral communication  
**City of event:** PARIS, France  
**Date of event:** 2009  
**Organising entity:** European Centre for Nanostructured Polymers **Type of entity:** Associations and Groups  
Johann G. Meier; Pilar Brusel; N. Moussaif; Cristina Crespo; Ana M. Benito; Wolfgang K. Maser; Raquel Sainz Vaqué; Pere Castell Muixí.
- 47** **Title of the work:** SYNTHESIS OF WATER SOLUBLE CNT/POLYANYLINE COMPOSITE MATERIALS  
**Name of the conference:** REUNIÓN ANUAL DEL GDRI GRAFENO Y NANOTUBOS 2009  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** COMARRUGA, Catalonia, Spain  
**Date of event:** 2009  
**Organising entity:** GDRi **Type of entity:** Associations and Groups  
Ana M. Benito; Pablo Jiménez Manero; Pere Castell Muixí; María T. Martínez; Mark in Het Panhuis; Wolfgang K. Maser.
- 48** **Title of the work:** TOWARDS SWCNT-BASED HIGH PERFORMANCE MATERIALS: THE CASE OF EPOXY AND PEEK  
**Name of the conference:** INTERNATIONAL CONFERENCE ON COMPOSITE MATERIALS (ICCM-09)  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** Participatory - oral communication  
**City of event:** EDINBURG, United Kingdom  
**Date of event:** 2009  
**Organising entity:** The British Composites Society **Type of entity:** Associations and Groups  
Alejandro Ansón-Casaos; Pere Castell Muixí; Ana M. Diez-Pascual; José Miguel González-Dominguez; Gary Ellis; Marián A. Gómez; María T. Martínez; A. Johnston; C. Kinston; C. Marco; Mohamed Naffakh; Y. Martínez-Rubi; Benoit Simard.
- 49** **Title of the work:** CARBON NANOTUBES DISPERSION TOWARDS POLYMER INTEGRATION  
**Name of the conference:** CHEMONTUBES 2008  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** ZARAGOZA, Aragon, Spain



**Date of event:** 2008

**Organising entity:** Consejo Superior de Investigaciones Científicas

**Type of entity:** State agency

José Miguel González-Dominguez; Pere Castell Muixí; Alejandro Ansón-Casaos; Wolfgang K. Maser; Ana M. Benito; María T. Martínez.

**50 Title of the work:** COMPOSITES MADE OF POLYANILINE/NANOTUBE WITH ENHANCED WATER SOLUBILITY

**Name of the conference:** NINTH INTERNATIONAL CONFERENCE ON THE SCIENCE AND APPLICATIONS OF NANOTUBES. NT08

**Type of event:** Conference

**Geographical area:** Non EU International

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

**City of event:** MONTPELLIER, France

**Date of event:** 2008

**Organising entity:** Michigan State University

Ana M. Benito; Pablo Jiménez Manero; Pere Castell Muixí; María T. Martínez; Mark in Het Panhuis; Wolfgang K. Maser.

**51 Title of the work:** INFLUENCE OF GAMMA IRRADIATION ON CARBON NANOTUBE REINFORCED POLYPROPYLENE

**Name of the conference:** CHEMONTUBES 2008

**Type of event:** Conference

**Geographical area:** Non EU International

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

**City of event:** ZARAGOZA, Aragon, Spain

**Date of event:** 2008

**Organising entity:** Consejo Superior de Investigaciones Científicas

**Type of entity:** State agency

Pere Castell Muixí; Francisco J. Medel; José A Puértolas; María T. Martínez.

**52 Title of the work:** POLY(HEXAMETHYLENE TEREPHTHALATE) AND CARBON NANOTUBES COMPOSITES OBTAINED BY RING OPENING POLYMERIZATION

**Name of the conference:** CHEMONTUBES 2008

**Type of event:** Conference

**Geographical area:** Non EU International

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

**City of event:** ZARAGOZA, Aragon, Spain

**Date of event:** 2008

**Organising entity:** Consejo Superior de Investigaciones Científicas

**Type of entity:** State agency

Natalie González-Vidal; Antxón Martínez de Ilarduya; Pere Castell Muixí; María T. Martínez; Sebastián Muñoz-Guerra.

**53 Title of the work:** WATER-DISPERSIBLE POLYANILINE/NANOTUBE COMPOSITES

**Name of the conference:** CHEMONTUBES 2008

**Type of event:** Conference

**Geographical area:** Non EU International

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

**City of event:** ZARAGOZA, Aragon, Spain

**Date of event:** 2008

**Organising entity:** Consejo Superior de Investigaciones Científicas

**Type of entity:** State agency

Ana M. Benito; Pablo Jiménez Manero; Pere Castell Muixí; María T. Martínez; Mark in Het Panhuis; Wolfgang K. Maser.



- 54** **Title of the work:** NANOCOMPUESTOS DE POLI(HEXAMETILENTEREFTALATO) PREPARADOS POR POLIMERIZACIÓN DE APERTURA DE ANILLO  
**Name of the conference:** X CONGRESO INTERNACIONAL DE MATERIALES POLIMÉRICOS. REUNIÓN DEL GEP  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** SEVILLA, Andalusia, Spain  
**Date of event:** 2007  
**Organising entity:** Grupo Especializado Polímeros **Type of entity:** Associations and Groups  
Natalie González-Vidal; Antxon Martínez; Pere Castell Muixí; María T. Martínez; Sebastián Muñoz-Guerra; Jon Fernández.
- 55** **Title of the work:** A COMPARISON OF THE RHEOLOGICAL FEATURES OF ORGANOCCLAY/PHENOXY NANOCOMPOSITES  
**Name of the conference:** AERC 2006 3RD ANNUAL EUROPEAN RHEOLOGY CONFERENCE  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** Participatory - oral communication  
**City of event:** HERSONISOS, Greece  
**Date of event:** 2006  
**Organising entity:** The British Society of Rheology **Type of entity:** Associations and Groups  
Wolfgang K. Maser; Antxon Santamaría; Ion Fernández; María E. Muñoz; Pere Castell Muixí.
- 56** **Title of the work:** ASPECTS OF WETTABILITY AND THE IMPROVEMENT OF ADHESION OF UV CURABLE POWDERCOATINGS ON POLYPROPYLENE SUBSTRATES  
**Name of the conference:** FIFTH INTERNATIONAL SYMPOSIUM ON CONTACT ANGLE, WETTABILITY AND ADHESION  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** Participatory - oral communication  
**City of event:** TORONTO, Canada  
**Date of event:** 2006  
**Organising entity:** MST Conferences  
Pere Castell Muixí; Marielle Wouters; Hartmut Fischer; Bert de With.
- 57** **Title of the work:** CARACTERÍSTICAS REOLÓGICAS DE NANOCOMPUESTOS POLÍMERO/ARCILLA Y POLÍMERO/NANOTUBOS  
**Name of the conference:** 3R CONGRESO DE JÓVENES INVESTIGADORES EN POLÍMEROS. JIP 2006  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** Ferrol, Galicia, Spain  
**Date of event:** 2006  
**Organising entity:** Grupo Especializado Polímeros **Type of entity:** Associations and Groups  
Ion Fernández; Pere Castell Muixí; Antxon Santamaría; María E. Muñoz.
- 58** **Title of the work:** NANOCOMPOSITES DE POLIPROPILENO CON NANOTUBOS DE CAPA ÚNICA. PROPIEDADES MECÁNICAS  
**Name of the conference:** IX CONGRESO INTERNACIONAL DE MATERIALES POLIMÉRICOS. REUNIÓN DEL GEP  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** Jaca, Aragon, Spain  
**Date of event:** 2005  
**Organising entity:** Grupo Especializado Polímeros **Type of entity:** Associations and Groups



Pere Castell Muixí; Ana M. Benito; Wolfgang K. Maser; María T. Martínez; Jon Fernández.

- 59** **Title of the work:** PHOTO-GRAFTING OF BENZOPHENONE DERIVATIVES ON POLYPROPYLENE: IMPROVEMENT OF ADHESION OF UV CURABLE POWDER COATINGS  
**Name of the conference:** EUROPEAN COATINGS CONFERENCE.MODERN COATINGS FOR PLASTICS SUBSTRATES  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** Participatory - invited/keynote talk  
**City of event:** Berlin, Berlin, Germany  
**Date of event:** 2003  
**Organising entity:** EUROPEAN COATINGS CONFERENCE **Type of entity:** Associations and Groups  
Pere Castell Muixí; Marielle Wouters; Hartmut Fischer; Bert de With.
- 60** **Title of the work:** POWDER COATINGS ON POLYPROPYLENE  
**Name of the conference:** VIII CONGRESO INTERNACIONAL DE MATERIALES POLIMÉRICOS. REUNIÓN DEL GEP  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** Participatory - oral communication  
**City of event:** TARRAGONA, Catalonia, Spain  
**Date of event:** 2003  
**Organising entity:** Grupo Especializado Polímeros **Type of entity:** Associations and Groups  
Pere Castell Muixí; Marielle Wouters; Hartmut Fischer; Bert de With.
- 61** **Title of the work:** COATING PLASTICS  
**Name of the conference:** SCHOOL FOR CATALYSIS AND PLASMA PHYSICS  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** Veldhoven, Noord-Brabant, Holland  
**Date of event:** 2002  
**Organising entity:** MATTER **Type of entity:** Associations and Groups  
**City organizing entity:** Eindhoven, Noord-Brabant, Holland  
Pere Castell Muixí; Marielle Wouters; Frank Huijs; Hartmut Fischer.
- 62** **Title of the work:** POWDER COATINGS FOR POLYPROPYLENE SUBSTRATES  
**Name of the conference:** ST SCIENCE DAY 2003  
**Type of event:** Conference **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** Eindhoven, Noord-Brabant, Holland  
**Date of event:** 2002  
**Organising entity:** Technische Universiteit Eindhoven **Type of entity:** University  
**City organizing entity:** Eindhoven, Noord-Brabant, Holland  
Pere Castell Muixí; Marielle Wouters; Frank Huijs; Hartmut Fischer.
- 63** **Title of the work:** MODIFICATION OF POLYPROPYLENE SURFACES  
**Name of the conference:** SCHOOL FOR CATALYSIS AND PLASMA PHYSICS  
**Type of event:** Workshop **Geographical area:** Non EU International  
**Type of participation:** 'Participatory - poster  
**City of event:** Eindhoven, Noord-Brabant, Holland  
**Date of event:** 2002





**Organising entity:** MATTER

**Type of entity:** Associations and Groups

**City organizing entity:** Eindhoven, Noord-Brabant, Holland

Pere Castell Muixí; Marielle Wouters; Frank Huijs; Hartmut Fischer.

**64 Title of the work:** POWDER COATINGS FOR POLYOLEFINS

**Name of the conference:** VI SYMPOSIUM OF THE COATING TECHNOLOGY GROUP

**Type of event:** Seminar

**Geographical area:** Non EU International

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

**City of event:** Eindhoven, Noord-Brabant, Holland

**Date of event:** 2002

**Organising entity:** Technische Universiteit Eindhoven

**Type of entity:** University

**City organizing entity:** Eindhoven, Noord-Brabant, Holland

Pere Castell Muixí; Marielle Wouters; Frank Huijs; Hartmut Fischer.

**65 Title of the work:** SURFACE MODIFICATION OF POLYPROPYLENE

**Name of the conference:** VI SYMPOSIUM OF THE COATING TECHNOLOGY GROUP

**Type of event:** Seminar

**Geographical area:** Non EU International

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

**City of event:** Eindhoven, Noord-Brabant, Holland

**Date of event:** 2002

**Organising entity:** Technische Universiteit Eindhoven

**Type of entity:** University

**City organizing entity:** Eindhoven, Noord-Brabant, Holland

Pere Castell Muixí; Marielle Wouters; Frank Huijs; Hartmut Fischer.

**66 Title of the work:** ORIENTACIÓN DE RESINAS EPOXI CRISTAL LÍQUIDO CON LA UTILIZACIÓN DE CAMPOS MAGNÉTICOS

**Name of the conference:** VII CONGRESO INTERNACIONAL DE MATERIALES POLIMÉRICOS. REUNIÓN DEL GEP

**Type of event:** Conference

**Geographical area:** Non EU International

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

**City of event:** SAN LORENZO DEL ESCORIAL, Community of Madrid, Spain

**Date of event:** 2001

**Organising entity:** Grupo Especializado Polímeros  
Pere Castell Muixí; Marina Galià Clua; Àngels Serra i Albet.

**Type of entity:** Associations and Groups

**67 Title of the work:** NUEVAS RESINAS EPOXI CRISTAL LÍQUIDO CON GRUPOS IMINA AROMÁTICOS

**Name of the conference:** VI CONGRESO INTERNACIONAL DE MATERIALES POLIMÉRICOS. REUNIÓN DEL GEP

**Type of event:** Conference

**Geographical area:** Non EU International

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

**City of event:** DONOSTI, Basque Country, Spain

**Date of event:** 1999

**Organising entity:** Grupo Especializado Polímeros  
Pere Castell Muixí; Marina Galià Clua; Àngels Serra i Albet.

**Type of entity:** Associations and Groups

**68 Title of the work:** SÍNTESIS, CARACTERIZACIÓN Y ENTRECruzAMIENTO DE RESINAS EPOXI CRISTAL LÍQUIDO

**Name of the conference:** V CONGRESO INTERNACIONAL DE MATERIALES POLIMÉRICOS. REUNIÓN DEL GEP

**Type of event:** Conference

**Geographical area:** Non EU International



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

**City of event:** TERRASSA, Catalonia, Spain

**Date of event:** 1997

**Organising entity:** Grupo Especializado Polímeros **Type of entity:** Associations and Groups  
Pere Castell Muixí; Marina Galià Clua; Àngels Serra i Albet.

## R&D management and participation in scientific committees

### Scientific, technical and/or assessment committees

**Committee title:** Smart Cities and Skateholder platform (Energy efficiency Buildings)

**Primary (UNESCO code):** 330505 - Concrete; 330514 - Houses; 330520 - Light constructions; 330528 - Regulations, codea and specifications; 330532 - Structural engineering

**City affiliation entity:** Bruselas, Belgium

**Start date:** 10/10/2012

### Organization of R&D activities

- 1 **Title of the activity:** ChemonTubes 2008  
**Type of activity:** Congreso internacional **Geographical area:** Non EU International  
**Convening entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency  
**City convening entity:** Zaragoza, Aragon, Spain  
**Start date:** 01/04/2008
- 2 **Title of the activity:** VI SYMPOSIUM OF THE COATING TECHNOLOGY GROUP  
**Type of activity:** Congreso nacional **Geographical area:** Non EU International  
**Convening entity:** Technische Universiteit Eindhoven **Type of entity:** University  
**City convening entity:** Zaragoza, Aragon, Spain  
**Start date:** 01/06/2002

### R&D management

- 1 **Name of the activity:** Nanotechnology manager  
**Type of management:** Management of R&D&I actions and projects  
**Performed tasks:** Manager of R&D projects (European, national, etc...)  
**Entity:** FUNDACION AITIIP  
**Start date:** 15/05/2012 **Duration:** 5 months
- 2 **Name of the activity:** R&D director of Nanozar SL  
**Type of management:** Management of R&D&I actions and projects  
**Performed tasks:** Responsible of the R&D department. Management of R&D projects (FP7...). Formation of researchers at their early stages  
**Entity:** NANOZAR SL  
**Start date:** 16/04/2007 **Duration:** 5 years



- 3 Name of the activity:** Responsible of the X-ray diffraction service at ICB  
**Type of management:** Management of R&D&I actions and projects  
**Performed tasks:** Management of the XRD equipment, service to researchers and industry  
**Entity:** Instituto de Carboquímica **Type of entity:** State agency  
**Start date:** 01/04/2004 **Duration:** 3 years

## Other achievements

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

- 1 Entity:** NANOZAR SL  
**City of entity:** Zaragoza, Aragon, Spain  
**Start-End date:** 15/03/2007 - 14/05/2012  
**Goals of the stay:** Contracted  
**Provable tasks:** R&D director
- 2 Entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency  
**Faculty, institute or centre:** Instituto de Carboquímica  
**City of entity:** Zaragoza, Aragon, Spain  
**Start-End date:** 15/03/2004 - 14/03/2007  
**Goals of the stay:** Post-doctoral  
**Provable tasks:** Solid materials characterization. Preparation of CNT based composites.
- 3 Entity:** Technische Universiteit Eindhoven **Type of entity:** University  
**Faculty, institute or centre:** Scheikundige Technologie  
**City of entity:** Eindhoven, Noord-Brabant, Holland  
**Start-End date:** 01/04/2002 - 31/03/2004 **Duration:** 2 years  
**Goals of the stay:** Post-doctoral  
**Provable tasks:** Development of active coatings for polyolefins
- 4 Entity:** TNO Industrial Technology  
**City of entity:** Eindhoven, Noord-Brabant, Holland  
**Start-End date:** 01/04/2002 - 31/03/2004 **Duration:** 2 years  
**Goals of the stay:** Contracted  
**Provable tasks:** Responsible of R&D research lines with industrial applications.
- 5 Entity:** Universitat Rovira i Virgili **Type of entity:** University  
**Faculty, institute or centre:** Facultat de Química  
**City of entity:** Tarragona, Catalonia, Spain  
**Start-End date:** 01/09/1997 - 28/02/2002  
**Goals of the stay:** Doctorate  
**Provable tasks:** Teaching organic chemistry and R&D for the PhD studies
- 6 Entity:** University of Florida **Type of entity:** University  
**Faculty, institute or centre:** Materials Science and Engineering  
**City of entity:** Gainesville, United States of America  
**Start-End date:** 15/08/2000 - 30/11/2000  
**Goals of the stay:** Guest



**Provable tasks:** Orientation of liquid crystalline epoxy resins under magnetic fields

- 7** **Entity:** FUNDACION AITIIP  
**City of entity:** Zaragoza, Aragon, Spain  
**Start date:** 15/05/2012  
**Goals of the stay:** Contracted  
**Provable tasks:** Nanotechnology manager