



**José Francisco Fernández
Lozano**

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**José Francisco Fernández Lozano**

Surname(s): **Fernández Lozano**
 Name: **José Francisco**
 Spanish ID number: **70037695**
 Date of birth: **23/09/1961**
 Gender: **Male**
 Nationality: **Spain**
 Country of birth: **Spain**
 Autonomous Community /Region of birth: **Community of Madrid**
 Contact Province: **Madrid**
 City of birth: **Madrid**
 Contact address: **C/ Kelsen 5**
 Rest of contact address: **Instituto de Cerámica y Vidrio**
 Postcode: **28049**
 Contact country: **Spain**
 Autonomous Community /Contact region: **Community of Madrid**
 Contact city: **Madrid**
 Land line phone: **(+34) 917355851**
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 Personal web page: **http://personal.icv.csic.es/css/**

Current professional situation only if working (not if unemployed)

Name of the entity: Instituto de Cerámica y Vidrio **Type of body:** State agency
Department, Service,...: Electrocerámica, Instituto
Category / Title of position or responsibility: PROFESOR DE INVESTIGACION
Start date: 19/07/2008
Modality of the contract: Civil servant

Positions held before current job

	Name of the entity	Category / position or responsibility	Start date
1	Instituto de Cerámica y Vidrio	Investigador Científico	25/11/2004
2	Instituto de Cerámica y Vidrio	Colaborador Científico (Científico Titular)	08/06/1992
3	Instituto de Cerámica y Vidrio	Jefe Departamento de Electrocerámica	01/11/1998
4	Penn State University, PA, USA	Visiting Scientist IMRL	01/07/1994
5	Instituto de Cerámica y Vidrio	Becario Postdoctoral	08/06/1992
6	Instituto de Cerámica y Vidrio	Becario empresa RIO RODANO S.A	01/01/1987
7	Instituto de Cerámica y Vidrio	Becario Honorífico	01/10/1985
8	Instituto de Cerámica y Vidrio	Jefe Departamento de Electrocerámica	04/12/2006



- 1** **Name of the entity:** Instituto de Cerámica y Vidrio **Type of body:** State agency
Category / position or responsibility: Investigador Científico
Start date: 25/11/2004 , 3 years - 9 months - 24 days
Date of finalisation: 19/08/2008
- 2** **Name of the entity:** Instituto de Cerámica y Vidrio **Type of body:** State agency
Category / position or responsibility: Colaborador Científico (Científico Titular)
Start date: 08/06/1992 , 12 years - 5 months - 17 days
Date of finalisation: 25/11/2004
- 3** **Name of the entity:** Instituto de Cerámica y Vidrio **Type of body:** State agency
Category / position or responsibility: Jefe Departamento de Electrocerámica
Start date: 01/11/1998 , 1 year - 11 months
Date of finalisation: 01/10/2000
- 4** **Name of the entity:** Penn State University, PA, USA **Type of body:** University
Category / position or responsibility: Visiting Scientist IMRL
Start date: 01/07/1994 , 1 year
Date of finalisation: 01/06/1995
- 5** **Name of the entity:** Instituto de Cerámica y Vidrio **Type of body:** State agency
Category / position or responsibility: Becario Postdoctoral
Start date: 08/06/1992 , 2 years - 23 days
Date of finalisation: 01/07/1994
- 6** **Name of the entity:** Instituto de Cerámica y Vidrio **Type of body:** State agency
Category / position or responsibility: Becario empresa RIO RODANO S.A
Start date: 01/01/1987 , 3 years - 6 months
Date of finalisation: 01/07/1990
- 7** **Name of the entity:** Instituto de Cerámica y Vidrio **Type of body:** State agency
Category / position or responsibility: Becario Honorífico
Start date: 01/10/1985 , 1 year - 2 months
Date of finalisation: 01/01/1987
- 8** **Name of the entity:** Instituto de Cerámica y Vidrio **Type of body:** State agency
Category / position or responsibility: Jefe Departamento de Electrocerámica
Start date: 04/12/2006



Training received

University education

Diplomas, degrees and engineering degrees

1 Official University Qualification: PostGrado

Name of qualification: Grado de Licenciatura en CIENCIAS FISICAS

Entity issuing the qualification: Universidad Autónoma de Madrid **Type of body:** University

Date of qualification: 01/09/1986

Average marks: Excellent

2 Official University Qualification: Higher degree

Name of qualification: Licenciatura en CIENCIAS FISICAS especialidad FISICA APLICADA

Entity issuing the qualification: Universidad Autónoma de Madrid **Type of body:** University

Date of qualification: 01/09/1984

Doctorates

Doctorate: Doctorado en CIENCIAS FISICAS

University issuing the title: Universidad Autónoma de Madrid **Type of body:** University

Date of qualification: 01/03/1990

Mark : Sobresaliente Cum Laude

Language skills

Language	Speech	Reading	Writing
English	Good	Good	Good
French	Good	Good	Good

Teaching experience



Teaching work

- 1 Name of subject/ name of course:** Nanostructured ceramics
Title : Curso de Especialización
Start date: 21/05/2012 **Date of finalisation:** 25/05/2011
Body where project took place: NVEZ-CERAMIC Novorsivisky, Russia
- 2 Name of subject/ name of course:** Tutor Formación en centros de trabajo/Becarios Finnova Convocatoria 2009
Title : Dirección General del Servicio de empleo de la CAM cofinanciado Fondo Social Europeo
Start date: 16/11/2009 **Date of finalisation:** 15/11/2010
Date of the last time: 15/11/2010
Body where project took place: Instituto de Cerámica y **Type of body:** State agency Vidrio
- 3 Name of subject/ name of course:** Electrocerámica: Materiales y aplicaciones/Ciencia e ingeniería Cerámica
Title : Curso de Doctorado
Start date: 2006 **Date of finalisation:** 2007
Date of the last time: 2007
Body where project took place: Universidad de Jaén **Type of body:** University
- 4 Name of subject/ name of course:** Materiales cerámicos
Title : Curso de Especialización
Start date: 2004 **Date of finalisation:** 2004
Date of the last time: 2004
Body where project took place: CIDAUT, Boecillo, Valladolid. (Financiado Fondo Social Europeo)
- 5 Name of subject/ name of course:** Materiales electrocerámicos ferroeléctricos
Title : Curso de Doctorado
Start date: 2002 **Date of finalisation:** 2003
Date of the last time: 2003
Body where project took place: Universidad **Type of body:** University Politécnica de Madrid
Department, institute, centre: E.T.S. I. Telecomunicación
- 6 Name of subject/ name of course:** Relación propiedades estructura en materiales cerámicos/Materiales Cerámicos y Vítreos
Title : Curso de Doctorado
Start date: 1997 **Date of finalisation:** 2001
Date of the last time: 2001
Body where project took place: Universidad Autónoma **Type of body:** University de Madrid
- 7 Name of subject/ name of course:** Tutor Formación en centros de trabajo/Desarrollo de Productos Electrónicos
Title : Dirección General de F.P. y Promoción Educativa
Start date: 1997 **Date of finalisation:** 2001
Date of the last time: 2001
Body where project took place: I.E.S Palomeras-Vallecas, ICV-CSIC



- 8 Name of subject/ name of course:** Electrocerámica/Materiales Cerámicos y Vítreos
Title : Curso de Doctorado
Start date: 1993 **Date of finalisation:** 2001
Date of the last time: 2001
Body where project took place: Universidad Autónoma **Type of body:** University de Madrid
- 9 Name of subject/ name of course:** PROPIEDADES Y APLICACIONES MATERIALES CERAMICOS Y VIDRIOS/La Química como ciencia multidisciplinar
Title : Curso de Doctorado
Start date: 2001
Date of the last time: 2012
Body where project took place: Universidad Autónoma **Type of body:** University de Madrid
- 10 Name of subject/ name of course:** Procesamiento de materiales cerámicos
Title : Curso de Especialización
Start date: 2001
Date of the last time: 2001
Body where project took place: Instituto tecnológico de Costa Rica (Costa Rica)
- 11 Name of subject/ name of course:** Procesamiento, Caracterización y Aplicaciones de los Materiales Cerámicos Ferroeléctricos/IV Jornadas de Física
Title : Curso de Especialización
Start date: 1995
Date of the last time: 1995
Body where project took place: Politécnica Nacional de Quito (Ecuador)
- 12 Name of subject/ name of course:** Aplicaciones de los Materiales Electrocerámicos/Ciencia y Tecnología de los Materiales Cerámicos
Title : Curso de Doctorado
Start date: 1993
Date of the last time: 1993
Body where project took place: E.T.S.I. Industriales de Zaragoza

Directing of doctoral theses or final projects

- 1 Title of: DT, ECP, ASD:** Formación de esmaltes metalizados multifuncionales en soporte de gres porcelánico
Type of project: Doctoral thesis
University: Universidad Autónoma de Madrid **Type of body:** University
Doctorate student: Julián Jiménez Reinosa
Mark : Sobresaliente Cum Laude
Date of reading: 07/2011
Quality mention: Yes
- 2 Title of: DT, ECP, ASD:** Estudio de los efectos de proximidad en nanopartículas de óxidos metálicos mediante procesos de dispersión en seco
Type of project: Doctoral thesis
University: Universidad Politécnica de Madrid **Type of body:** University
Doctorate student: Israel Lorite Villalba



Mark : Sobresaliente Cum Laude

Date of reading: 07/2011

- 3** **Title of: DT, ECP, ASD:** Estudio de materiales cerámicos de alta constante dieléctrica basados en $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$
Doctoranda: Pilar Leret (Codirigida con el Dr. J. J. Romero)
Type of project: Doctoral thesis
University: Universidad Autónoma de Madrid **Type of body:** University
Doctorate student: Pilar Leret Moltó
Mark : Sobresaliente Cum Laude
Date of reading: 12/2010
- 4** **Title of: DT, ECP, ASD:** Estudio de materiales cerámicos basados en el sistema $(\text{K,Na,Li})(\text{Nb,Ta,Sb})\text{O}_3$: Relación entre la estructura y las propiedades eléctricas
Type of project: Doctoral thesis
University: Universidad Autónoma de Madrid **Type of body:** University
Doctorate student: Fernando Rubio Marcos
Mark : Sobresaliente Cum Laude
Date of reading: 07/2009
- 5** **Title of: DT, ECP, ASD:** Influencia de las fases secundarias en la microestructura y propiedades en materiales cerámicos de $\text{Bi}_4\text{Ti}_3\text{O}_{12}$.
Type of project: Doctoral thesis
University: Universidad Autónoma de Madrid **Type of body:** University
Doctorate student: María Guadalupe Navarro Rojero
Mark : Sobresaliente Cum Laude
Date of reading: 06/2009
- 6** **Title of: DT, ECP, ASD:** Obtención de nanoarcilas funcionalizadas como nanocargas en el desarrollo de nanocomposites poliméricos
Type of project: Work leading to an ASD
University: Universidad Autónoma de Madrid **Type of body:** University
Doctorate student: Antonio Jesús López Vilchez
Mark : sobresaliente
Date of reading: 09/2008
- 7** **Title of: DT, ECP, ASD:** Modelización funcional de piezocomposites.
Type of project: Doctoral thesis
University: Universidad Politécnica de Madrid **Type of body:** University
Doctorate student: Pilar Ochoa Pérez
Mark : Sobresaliente Cum Laude
Date of reading: 2006
- 8** **Title of: DT, ECP, ASD:** Procesos de Colado en Cinta para decoración de materiales cerámicos.
Type of project: Doctoral thesis
University: Universidad Autónoma de Madrid **Type of body:** University
Doctorate student: Elena Solera Carlavilla
Mark : Sobresaliente "cum laude"
Date of reading: 2005



- 9** **Title of:** DT, ECP, ASD: Estudio de la sinterización de cerámicas dieléctricas del sistema SiO₂-Al₂O₃-MgO.
Type of project: Doctoral thesis
University: Universidad de de Valencia **Type of body:** University
Doctorate student: Enrique Vela Carrascosa
Mark : Sobresaliente "cum laude"
Date of reading: 2004
- 10** **Title of:** DT, ECP, ASD: Nueva familia de materiales cerámicos basados en maganitas de tierras raras.
Type of project: Doctoral thesis
University: Universidad Autónoma de Madrid **Type of body:** University
Doctorate student: Dionisio Alberto Gutierrez Fallas
Mark : Sobresaliente "cum laude"
Date of reading: 2001
- 11** **Title of:** DT, ECP, ASD: Desarrollo de células sensoras para su integración en pieles artificiales
Type of project: Minor thesis
University: Universidad Politécnica de Madrid **Type of body:** University
Doctorate student: Pilar Ochoa Pérez
Mark : Sobresaliente
Date of reading: 09/2000
- 12** **Title of:** DT, ECP, ASD: Microestructura y propiedades de materiales cerámicos de PZT preparados a partir de polvo modificado superficialmente con fósforo (Co-dirigida con el Dr. Moure)
Type of project: Doctoral thesis
University: Universidad Autónoma de Madrid **Type of body:** University
Doctorate student: Luis Alberto Celi Apolo
Mark : Sobresaliente "cum laude"
Date of reading: 2000
- 13** **Title of:** DT, ECP, ASD: Propiedades ferroeléctricas de materiales cerámicos con estructura Aurivillius de composición PbxBi₄Ti₃+xO₁₂+3x x=0,1,2 y 3.
Type of project: Doctoral thesis
University: Universidad Autónoma de Madrid **Type of body:** University
Doctorate student: Luis Lascano Lascano
Mark : Sobresaliente "cum laude"
Date of reading: 2000
- 14** **Title of:** DT, ECP, ASD: Estudio de los mecanismos de formación de partículas de ZnO con diseño morfológico y dimensional obtenidas por el método de precipitación controlada (Co-dirigida con el Dr. Moure)
Type of project: Doctoral thesis
University: Universidad Autónoma de Madrid **Type of body:** University
Doctorate student: Jorge Enrique Rodriguez Paez
Mark : Sobresaliente "cum laude"
Date of reading: 1999
- 15** **Title of:** DT, ECP, ASD: Tunability of Cymbals as Piezoceramic-Metal Transducers
Type of project: Minor thesis
University: Earlangen University (Germany) **Type of body:** University
Doctorate student: Peter LEIDINGER
Mark : Maximum degree
Date of reading: 09/1996



- 16 Title of: DT, ECP, ASD:** Diseño de materiales ceramicos basados en BaTiO3 con microestructura controlada utilizables en aplicaciones de condensadores multicapa (Co-dirigida con el Dr. Moure)
Type of project: Doctoral thesis
University: Universidad Autónoma de Madrid **Type of body:** University
Doctorate student: Amador Caballero Cuesta
Mark : Sobresaliente "cum laude"
Date of reading: 1994

Experience in Science and Technology

Scientific or technological activity

Participation in R&D&I projects funded in competitive tenders by public or private bodies

- 1 Name of the project:** Modelling Nanomaterial Toxicity (MODENA)
Project type: Research and development, including transfer **Project area:** European Union
Your role in the project: Researcher
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head(s) researcher(s): M.A. Bañares; J.F. Fernandez
Funding body or bodies: European Union Materials, Physical and Nanosciences COST Action TD1204
Type of participation: Collaborator
Start date: 25/07/2012 , 3 years
Date of finalisation: 06/06/2016
- 2 Name of the project:** Nanocrystalline Permanent Magnets Based on Hybrid Metal-Ferrites (NANOPYME)
Project type: Research and development, including transfer **Project area:** European Union
Your role in the project: Scientific co-ordinator
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
City : MADRID, Community of Madrid, Spain
Head(s) researcher(s): J. F. FERNANDEZ
Type of participation: Co-ordinator
Name of the programme: NMP.2012.4.1-3
Code according to the funding body: Unión Europea Award Number: 310516
Start date: 01/12/2012 , 3 years
Date of finalisation: 30/11/2015
Total amount: 183.902
- 3 Name of the project:** Development of adaptive Production systems for Eco-efficient firing processes (DAPHNE)
Project type: Research and development, including transfer **Project area:** European Union
Your role in the project: Scientific co-ordinator



Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

City : MADRID, Community of Madrid, Spain

Head(s) researcher(s): J. F. FERNANDEZ

Type of participation: Co-ordinator

Name of the programme: FoF.NMP.2012-1

Code according to the funding body: Unión Europea Award Number: 314636

Start date: 01/10/2012 , 3 years

Date of finalisation: 30/09/2015

Total amount: 254.719,75

- 4 Name of the project:** Next Generation Nano-engineered Thermoelectric Converters - from concept to industrial validation (NEXTEC) NMP.2010-1.2-3 Thermoelectric energy (TE) converters based on nanotechnology

Project area: European Union

Your role in the project: Researcher

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head(s) researcher(s): J. F. Fernández

Funding body or bodies:

Unión Europea Award Number: 263167

Name of the programme: Unión Europea Award Number: 263167

Start date: 01/06/2011 , 3 years

Date of finalisation: 30/05/2014

Total amount: 68.566

Total amount for sub-project: 68.566

- 5 Name of the project:** Role of crystalline defects in Electro-Magnetic-Optical properties of Single and Multiferroic ceramics

Project area: National

Your role in the project: Co-ordinator of total project, network or consortium

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head(s) researcher(s): Miguel Angel García

Funding body or bodies:

MAT2010-21088-CO3-01

Start date: 01/01/2011 , 3 years

Date of finalisation: 31/12/2013

Total amount: 121.000

- 6 Name of the project:** Single- and multiphase ferroics and multiferroics with restricted geometries (SIMUFER)

Project type: Research and development, including transfer **Project area:** European Union

Your role in the project: Co-ordinator of total project, network or consortium

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head(s) researcher(s): J.F. Fernandez

Funding body or bodies:

European Union COST MP0904

Type of participation: Co-ordinator



Start date: 01/2010 , 3 years
Date of finalisation: 12/2013

7 Name of the project: Nuevos materiales cerámicos micro y nanoestructurados para sistemas de seguridad (NEOCERSEC)

Project area: National

Your role in the project: Co-ordinator of total project, network or consortium

Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency

Head(s) researcher(s): J. F. Fernández

Funding body or bodies:
CSIC 201160E043

Type of participation: Co-ordinator

Start date: 01/02/2011 , 2 years - 5 months

Date of finalisation: 30/06/2013

Total amount: 155.000

8 Name of the project: Magnetismo en semiconductores por efecto de proximidad.

Project area: National

Your role in the project: Researcher

Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency

Head(s) researcher(s): Miguel Angel García

Funding body or bodies:
MAT2009-07224-E

Start date: 01/01/2010 , 1 year

Date of finalisation: 31/12/2010

Total amount: 15.000

9 Name of the project: Cerámicas nanoestructuradas multifuncionales a través de nanopartículas ordenadas

Project area: National

Your role in the project: Co-ordinator of total project, network or consortium

Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency

Head(s) researcher(s): J.F. Fernández

Funding body or bodies:
MAT2007-66845-CO2-01

Start date: 01/10/2007 , 3 years

Date of finalisation: 30/09/2010

Total amount: 157.300

10 Name of the project: Materiales Nanocompuestos en Automoción

Project area: Regional

Your role in the project: Co-ordinator of total project, network or consortium

Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency

Head(s) researcher(s): J.F. Fernández

Funding body or bodies:

Universidad de Valladolid (Junta de Castilla y León GR104) **Type of body:** University



Start date: 04/05/2009 , 1 year
Date of finalisation: 03/05/2010
Total amount: 6.000

11 Name of the project: Sistema de Microscopía de Fuerzas Atómicas y Microscopía Raman Confocal con criostato para medidas a altas y bajas temperaturas y modo de fuerza pulsada digital

Project type: Technical viability study **Project area:** National
Your role in the project: Co-ordinator of total project, network or consortium
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency

Head(s) researcher(s): J.F. Fernandez

Funding body or bodies:

Instituto de Cerámica y Vidrio **Type of body:** State agency

City : Madrid, Community of Madrid, Spain

CSIC PA2005-09

Type of participation: Co-ordinator

Name of the programme: DOTACION DE INFRAESTRUCTURA CIENTIFICA

Start date: 2009, 1 year

Date of finalisation: 2010

Total amount: 345.000

Most relevant results: DOTACION DE INFRAESTRUCTURA CIENTIFICA

12 Name of the project: Aplicación de técnicas no convencionales para la sinterización de cerámicas piezoeléctricas libres de plomo

Project area: National

Your role in the project: Co-ordinator of total project, network or consortium

Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency

Head(s) researcher(s): M. Villegas

Funding body or bodies:

CSIC PIE2004 60E323

Start date: 01/04/2007 , 2 years

Date of finalisation: 31/03/2009

Total amount: 60.000

13 Name of the project: Materiales con nuevo magnetismo de intercara: origen y exploración de aplicaciones

Project area: National

Your role in the project: Co-ordinator of total project, network or consortium

Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency

Head(s) researcher(s): J.F. Fernández

Funding body or bodies:

CSIC PIF2006-024

Start date: 01/2007 , 2 years

Date of finalisation: 12/2008

Total amount: 199.000

14 Name of the project: Desarrollo nanoestructural de materiales electrocerámicos con propiedades funcionales avanzadas

Project area: National



Your role in the project: Scientific co-ordinator

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head(s) researcher(s): Amador Caballero Cuesta

Funding body or bodies:

CICYT MAT2004-04843-C02-01

Start date: 13/12/2004 , 3 years

Date of finalisation: 13/12/2007

Total amount: 101.540

15 Name of the project: Semiconductores Nanoestructurados basados en ZnO con Posible Ferromagnetismo”

Project area: National

Your role in the project: Scientific co-ordinator

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head(s) researcher(s): Amador Caballero Cuesta

Funding body or bodies:

CISIC 200460E054

Start date: 01/2005 , 2 years

Date of finalisation: 12/2006

Total amount: 60.000

16 Name of the project: Materiales electrocerámicos para protección civil e industrial

Project type: Research and development, including transfer **Project area:** Non EU International

Your role in the project: Co-ordinator of total project, network or consortium

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head(s) researcher(s): J. De Frutos

Funding body or bodies:

CYTED Proyecto Investigación VIII.13

Type of participation: Co-ordinator

Start date: 01/10/2002 , 4 years

Date of finalisation: 30/09/2006

17 Name of the project: Advanced Electro-Ceramics: Grain Boundary Engineering

Project type: Research and development, including transfer **Project area:** European Union

Your role in the project: Co-ordinator of total project, network or consortium

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head(s) researcher(s): J.F. Fernandez

Funding body or bodies:

European Union COST 525

Type of participation: Co-ordinator

Start date: 09/1999 , 5 years

Date of finalisation: 06/2005

Total amount: 18.000



- 18 Name of the project:** Materiales Electrocerámicos con sinergia mediante procesos de ingeniería de borde de grano
Project area: National
Your role in the project: Co-ordinator of total project, network or consortium
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head(s) researcher(s): J.F. Fernández
Funding body or bodies: CICYT MAT2001-1628-C02-01 **Type of body:** State agency
Start date: 28/12/2001 , 3 years
Date of finalisation: 27/12/2004
Total amount: 107.370,8
- 19 Name of the project:** Red Iberoamericana de Materiales Electrocerámicos
Project type: Research and development, including transfer **Project area:** Non EU International
Your role in the project: Co-ordinator of total project, network or consortium
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head(s) researcher(s): J.F. Fernandez
Funding body or bodies: CYTED Red Temática VIII.F
Type of participation: Co-ordinator
Start date: 1997, 5 years
Date of finalisation: 2002
Total amount: 285.100
- 20 Name of the project:** Control de los fenómenos de nucleación y crecimiento de PZT obtenidos por sol-gel mediante metodos de semillado
Project type: Research and development, including transfer **Project area:** Non EU International
Your role in the project: Co-ordinator of total project, network or consortium
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head(s) researcher(s): J.F. Fernandez
Funding body or bodies: Subdirección General de Cooperación Internacional, MEC
Type of participation: Co-ordinator
Start date: 01/1999 , 5 years
Date of finalisation: 12/2001
Total amount: 18.000
- 21 Name of the project:** Advanced Eletroceramic: Grain Boundary Engineering. Kick-Off Workshop
Project area: European Union
Your role in the project: Co-ordinator of total project, network or consortium
Head(s) researcher(s): J.F. Fernandez
Funding body or bodies: European Commission COST ICC2-CT-2000-02066
Type of participation: Co-ordinator
Start date: 09/2000



Date of finalisation: 08/2001

Total amount: 14.600

- 22** **Name of the project:** Efecto dimensional en las aplicaciones y propiedades de materiales ferroeléctricos modificados de bajas pérdidas dieléctricas
Project area: National
Your role in the project: Co-ordinator of total project, network or consortium
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head(s) researcher(s): J.F. Fernández
Funding body or bodies: CICYT (MAT97-0694-C02)
Start date: 08/1997 , 3 years
Date of finalisation: 08/2000
Total amount: 60.000
- 23** **Name of the project:** elación entre las propiedades ferroeléctricas y el tamaño de partícula y naturaleza del borde de grano en BaTiO₃.
Project area: European Union
Your role in the project: Scientific co-ordinator
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head(s) researcher(s): J. F. Fernández
Funding body or bodies: Proyecto Conjunto CNR-CSIC.
Start date: 1997, 1 year
Date of finalisation: 1998
Total amount: 4.800
- 24** **Name of the project:** Size Effects in Ferroic Solids
Project area: Non EU International
Your role in the project: Researcher
Body where project took place: Penn State University, PA USA
Head(s) researcher(s): Prof. Robert E. Newnham
Funding body or bodies: ational Science Foundation (N 00014-92 J 1510)
Start date: 08/1993 , 3 years
Date of finalisation: 08/1996
Total amount: 1.004.000
- 25** **Name of the project:** DN Actuator
Project area: Non EU International
Your role in the project: Researcher
Head(s) researcher(s): L. Eric. Cross
Funding body or bodies: Department of Naval Research (DNR 9223847)
Start date: 02/1992
Date of finalisation: 02/1996
Total amount: 3.515.158



- 26** **Name of the project:** Estudio y Desarrollo de Materiales Cerámicos Inteligentes basados en transductores electromecánicos del sistema $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-Pb}(\text{Zn}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-Pb}(\text{Zr}_{1-x}\text{Tix})\text{O}_3$
Project area: National
Your role in the project: Co-ordinator of total project, network or consortium
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head(s) researcher(s): J.F. Fernández
Funding body or bodies: CICYT (MAT 94-807)
Start date: 1994, 2 years
Date of finalisation: 1996
Total amount: 50.000
- 27** **Name of the project:** Ferroelectric Thin Films
Project type: Basic research (including archaeological digs, etc) **Project area:** European Union
Your role in the project: Researcher
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Funding body or bodies: CEE (COST Project 514) Unión Europea
Start date: 1993, 3 years
Date of finalisation: 1996
Total amount: 15.000
- 28** **Name of the project:** Ceramic materials for piezoelectric sensors and actuators under extreme conditions
Project type: Basic research (including archaeological digs, etc) **Project area:** European Union
Your role in the project: Researcher
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head(s) researcher(s): P. Durán
Funding body or bodies: CEE (COST Project 503) Unión Europea
Start date: 1992, 4 years
Date of finalisation: 1996
Total amount: 15.000
- 29** **Name of the project:** Desarrollo y caracterización de compuestos Metal-Cerámica utilizables como Actuadores Electromecánicos en un amplio margen de temperaturas (-100°C a +200°C)
Project area: National
Your role in the project: Co-ordinator of total project, network or consortium
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head(s) researcher(s): J.F. Fernández
Funding body or bodies: DGICYT (PR 94-028)
Start date: 1994, 1 year
Date of finalisation: 1995



Total amount: 21.000

30 Name of the project: Desarrollo de Materiales Inteligentes basados en soluciones sólidas del sistema PMN-PZN-PZT.

Project area: National

Your role in the project: Researcher

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head(s) researcher(s): J.F. Fernández

Funding body or bodies:

CICYT (MAT91-0597)

Start date: 1993, 3 years

Date of finalisation: 1994

Total amount: 18.000

31 Name of the project: Estudio y desarrollo de materiales cerámicos multicapa basados en niobato de plomo y sus soluciones sólidas para uso como transductores electromecánicos de alta precisión.

Project area: National

Your role in the project: Researcher

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head(s) researcher(s): C. Moure

Funding body or bodies:

CICYT (MAT91-0597)

Start date: 1992, 3 years

Date of finalisation: 1994

Total amount: 99.000

32 Name of the project: Preparación y desarrollo de nuevos materiales cerámicos como condensadores multicapa de alta fiabilidad en el sistema PT-MZN

Project area: National

Your role in the project: Researcher

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head(s) researcher(s): C. Moure

Funding body or bodies:

CICYT (MAT88-0227)

Start date: 1989, 3 years

Date of finalisation: 1991

Total amount: 99.000

33 Name of the project: Preparación y propiedades de materiales cerámicos superconductores de alta T_c obtenidos por diferentes rutas

Project area: National

Your role in the project: Researcher

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head(s) researcher(s): P. Durán

Funding body or bodies:

CICYT (MAT88-0219)



Start date: 1988, 3 years
Date of finalisation: 1991
Total amount: 66.000

34 Name of the project: Preparación, caracterización y desarrollo de nuevos materiales cerámicos utilizables como sensores de oxígeno y sensores piezoeléctricos

Project area: National

Your role in the project: Researcher

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head(s) researcher(s): 1

Funding body or bodies:

CSIC (CSIC-559)

Type of body: State agency

Start date: 1985, 3 years

Date of finalisation: 1988

Total amount: 120.000

35 Name of the project: Obtención, caracterización y estudio de materiales piezocerámicos del tipo PbTiO₃ para aplicaciones como transductores ultrasónicos

Project area: National

Your role in the project: Researcher

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head(s) researcher(s): Jesús Mendiola

Funding body or bodies:

CAICYT (PR89-0193-C02-02)

Start date: 1985, 3 years

Date of finalisation: 1988

Total amount: 120.000

36 Name of the project: X Electroceramics 2006. Internacional Conference on Electroceramics

Project area: Non EU International

Your role in the project: Co-ordinator of total project, network or consortium

Head(s) researcher(s): J.F. Fernandez

Funding body or bodies:

Consejo Superior de Investigaciones Científicas

Type of body: State agency

City : Madrid, Community of Madrid, Spain

Type of participation: Co-ordinator

Start date: 2006

Total amount: 10.000

37 Name of the project: X Electroceramics 2006. International Conference on Electroceramics and their applications

Project area: Non EU International

Your role in the project: Co-ordinator of total project, network or consortium

Head(s) researcher(s): J.F. Fernandez

Funding body or bodies:

MAT2006-26542-E

Type of participation: Co-ordinator



Start date: 2006

Total amount: 9.000

38 Name of the project: Motores ultrasónicos con características variables construidos con materiales cerámicos piezoeléctricos mejorados y electrodos configurables

Project area: Regional

Your role in the project: Co-ordinator of total project, network or consortium

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head(s) researcher(s): M. Villegas

Funding body or bodies:

CAM 07N/0054/1999

Type of body: Comunidad de Madrid

Start date: 2000, 1 year

Total amount: 75.000

39 Name of the project: VI Reunión Nacional de Materiales. Número Monográfico BSECV

Project area: National

Your role in the project: Co-ordinator of total project, network or consortium

Head(s) researcher(s): J.F. Fernandez

Funding body or bodies:

CICYT (MAT2000-2130-E)

Type of participation: Co-ordinator

Start date: 2000

Total amount: 3.000

40 Name of the project: V Reunión Nacional de Materiales. Número Monográfico BSECV

Project area: National

Your role in the project: Co-ordinator of total project, network or consortium

Head(s) researcher(s): J.F. Fernandez

Funding body or bodies:

CICYT (MAT97-1675-E)

Type of participation: Co-ordinator

Start date: 1997

Total amount: 3.000

Participation in R&D&I contracts, agreements or projects, not the result of competitive bidding, with companies (or internally in them) and/or governments

1 Name of the project: Advance processing of multilayer AIN HTCC package

Project type: Industrial research

Project area: Non EU International

Your role in the project: Scientific co-ordinator

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: Miguel Angel Rodríguez

Participating bodies: NEVZ-CERAMICS

Funding body:

NEVZ-CERAMICS

Start date: 06/02/2012 , 1 year



Total amount: 129.900

2 Name of the project: Mejoras en la fabricación, dispersión y nivel de señal de pigmentos de seguridad luminiscentes

Project type: Industrial research

Project area: National

Your role in the project: Scientific co-ordinator

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: J.F. Fernandez

Funding body:

Fábrica Nacional de Moneda y Timbre

Type of body: industrial

City : Madrid, Community of Madrid, Spain

Start date: 01/12/2011 , 1 year

Total amount: 57.700

3 Name of the project: Diseño de partículas fotoactivas de baja dimensionalidad para nanoesmaltes sanitarios

Project type: Industrial research

Project area: National

Your role in the project: Scientific co-ordinator

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: J. F. Fernández

Funding body:

ROCA SANITARIOS S.A.

Start date: 03/11/2011 , 2 years

Total amount: 199.315,06

4 Name of the project: Sistema de cocción de fritas de alta eficiencia energética

Project type: Industrial research

Project area: National

Your role in the project: Scientific co-ordinator

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: J. F. Fernández

Funding body:

Kerafrit S.A. (Generalitat Valenciana INIDIV/2011/064)

Start date: 09/09/2011 , 1 year

Total amount: 20.000

5 Name of the project: Sistema de cocción de fritas de alta eficiencia energética

Project type: Industrial research

Project area: National

Your role in the project: Scientific co-ordinator

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: J. F. Fernández

Funding body:

Keraben Grupo S.A. (Generalitat Valenciana INIDIV/2011/066)

Start date: 09/09/2011 , 1 year

Total amount: 5.000

- 6** **Name of the project:** Desarrollo de productos para aplicaciones en el sector de la construcción y náutico a partir de residuos agro-industriales y materiales poliméricos.
Project type: Industrial research **Project area:** National
Your role in the project: Scientific co-ordinator
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head researcher: J. F. Fernández
Funding body: VICAR S.A. (CDTI IBI643-BINCENT)
Start date: 01/06/2011 , 3 years
Total amount: 31.300
- 7** **Name of the project:** Materiales cerámicos de altas prestaciones para aplicaciones eléctricas. Parte IV
Project type: Industrial research **Project area:** National
Your role in the project: Scientific co-ordinator
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head researcher: J. F. Fernández
Funding body: CAÑADA S.A
Start date: 01/01/2011 , 1 year
Total amount: 12.000
- 8** **Name of the project:** Proyecto de Investigación de Fabricación de micropartículas esféricas vítreas con propiedades cementantes (CEMESFERAS).
Project type: Industrial research **Project area:** National
Your role in the project: Scientific co-ordinator
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head researcher: J. F. Fernández
Funding body: MICINN IPT-420000-2010-31
Start date: 01/07/2010 , 3 years
Total amount: 605.218
- 9** **Name of the project:** Incorporación de Nanopartículas en esmaltes para pavimentos y revestimientos cerámicos. Parte II
Project type: Industrial research **Project area:** National
Your role in the project: Scientific co-ordinator
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head researcher: J. F. Fernández
Funding body: Kerafrit S.A.
Start date: 01/01/2010 , 1 year
Total amount: 20.000
- 10** **Name of the project:** Parametrización de un sistema de control de calidad para la producción de pigmentos de seguridad
Project type: Industrial research **Project area:** National



Your role in the project: Researcher

Body where project took place: Instituto de Cerámica y Vidrio

Head researcher: J.J. Romero

Funding body:

Fábrica Nacional de Moneda y Timbre

City : Madrid, Community of Madrid, Spain

Start date: 01/01/2010 , 1 year

Total amount: 51.305,68

Type of body: State agency

Type of body: industrial

11 Name of the project: Materiales cerámicos de altas prestaciones para aplicaciones eléctricas. Parte III

Project type: Industrial research

Your role in the project: Scientific co-ordinator

Body where project took place: Instituto de Cerámica y Vidrio

Head researcher: J. F. Fernández

Funding body:

CAÑADA S.A

Start date: 01/01/2010 , 1 year

Total amount: 12.000

Project area: National

Type of body: State agency

12 Name of the project: Tecnologías Eficientes e Inteligentes Orientadas a la Salud y al Confort en Ambientes Interiores.TECNO-CAI.

Project type: Industrial research

Your role in the project: Scientific co-ordinator

Body where project took place: Instituto de Cerámica y Vidrio

Head researcher: J. F. Fernández

Funding body:

Keraben S.A. (CDTI CEN-2009-1010)

Start date: 31/08/2009 , 3 years

Total amount: 99.000

Project area: National

Type of body: State agency

13 Name of the project: Rutas alternativas para obtención de pigmentos de seguridad – Desarrollo de Prototipos de Laboratorio

Project type: Industrial research

Your role in the project: Researcher

Body where project took place: Instituto de Cerámica y Vidrio

Head researcher: J.J. Romero

Funding body:

Fábrica Nacional de Moneda y Timbre

City : Madrid, Community of Madrid, Spain

Start date: 30/04/2009 , 1 year

Total amount: 24.000

Project area: National

Type of body: State agency

Type of body: industrial

14 Name of the project: Materiales cerámicos de altas prestaciones para aplicaciones eléctricas. Parte II

Project type: Industrial research

Your role in the project: Scientific co-ordinator

Project area: National

Type of body: State agency



Body where project took place: Instituto de Cerámica y Vidrio

Head researcher: J. F. Fernández

Funding body:

CAÑADA S.A

Start date: 01/01/2009 , 1 year

Total amount: 12.000

15 Name of the project: Incorporación de Nanopartículas en esmaltes para pavimentos y revestimientos cerámicos

Project type: Industrial research

Project area: National

Your role in the project: Scientific co-ordinator

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: J. F. Fernández

Funding body:

Kerafrit S.A.

Start date: 01/01/2009 , 1 year

Total amount: 20.000

16 Name of the project: Esmaltes funcionales de prestaciones inusuales conformados a baja temperatura

Project type: Industrial research

Project area: National

Your role in the project: Scientific co-ordinator

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: J. F. Fernández

Funding body:

ROCA SANITARIOS S.A.

Start date: 01/07/2008 , 2 years

Total amount: 189.240,74

17 Name of the project: Materiales cerámicos de altas prestaciones para aplicaciones eléctricas

Project type: Industrial research

Project area: National

Your role in the project: Scientific co-ordinator

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: J. F. Fernández

Funding body:

GRES DE ARAGON S.A.

Start date: 01/01/2008 , 1 year

Total amount: 23.577,77

18 Name of the project: respectiva de procesos de obtención de nanopartículas de materiales dieléctricos.

Project type: Industrial research

Project area: National

Your role in the project: Scientific co-ordinator

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: J. F. Fernández

Funding body:

VICAR S.A



Start date: 01/09/2007 , 2 years

Total amount: 16.000

19 Name of the project: Ensayos preliminares de nanoencapsulación de sustancias de seguridad

Project type: Industrial research

Project area: National

Your role in the project: Researcher

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: M.A. Rodriguez

Funding body:

Fábrica Nacional de Moneda y Timbre

Type of body: industrial

City : Madrid, Community of Madrid, Spain

Start date: 18/06/2007 , 1 month

Total amount: 14.758

20 Name of the project: Estudio comparativo de dos nanomateriales

Project type: Industrial research

Project area: National

Your role in the project: Scientific co-ordinator

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: Miguel Angel Rodríguez

Funding body:

Fábrica Nacional de Moneda y Timbre

Type of body: industrial

City : Madrid, Community of Madrid, Spain

Start date: 18/06/2007 , 1 month

Total amount: 3.000

21 Name of the project: Procesos de modificación de nanoarcillas para la obtención de nanocomposites

Project type: Industrial research

Project area: National

Your role in the project: Scientific co-ordinator

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: J. F. Fernández

Funding body:

Fundación para la Investigación y Desarrollo en Transporte y Energía

Type of body: Foundation

Start date: 03/05/2007 , 2 years

Total amount: 23.200

22 Name of the project: Investigación en nuevas tecnologías para el desarrollo de productos de porcelánico con propiedades mejoradas y acabados estéticos innovadores

Project type: Industrial research

Project area: National

Your role in the project: Scientific co-ordinator

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: J.F. Fernandez

Funding body:

KERABEN S.A.

Start date: 01/03/2007 , 1 year



Total amount: 15.600

- 23** **Name of the project:** Desarrollo y obtención de materiales innovadores con nanotecnología orientada (DOMINO)
Project type: Industrial research **Project area:** National
Your role in the project: Scientific co-ordinator
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head researcher: J. F. Fernández
Funding body:
TOLSA S.A. (CENIT2007-2010)
Start date: 01/2007 , 3 years
Total amount: 331.560
- 24** **Name of the project:** Desarrollo de nanomateriales funcionales y sus procesos de obtención
Project type: Industrial research **Project area:** National
Your role in the project: Scientific co-ordinator
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head researcher: J.F. Fernandez
Funding body:
Fábrica Nacional de Moneda y Timbre **Type of body:** industrial
City : Madrid, Community of Madrid, Spain
Start date: 01/06/2006 , 1 year
Total amount: 19.105,04
- 25** **Name of the project:** Aplicación de nanotecnologías para pavimentos y revestimientos cerámicos de nueva generación
Project type: Industrial research **Project area:** National
Your role in the project: Scientific co-ordinator
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head researcher: J.F. Fernandez
Funding body:
KERABEN S.A.
Start date: 11/05/2006 , 1 year - 3 months
Total amount: 40.000
- 26** **Name of the project:** Funcionalización de sepiolita con nanopartículas por procesos de baja temperatura
Project type: Industrial research **Project area:** National
Your role in the project: Scientific co-ordinator
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head researcher: J. F. Fernández
Funding body:
TOLSA S.A.
Start date: 01/05/2006 , 7 months
Total amount: 20.000



- 27** **Name of the project:** Procesos avanzados para la obtención de nanocomposites
Project type: Industrial research **Project area:** National
Your role in the project: Scientific co-ordinator
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head researcher: J. F. Fernández
Funding body: Fundación para la Investigación y Desarrollo en Transporte y Energía **Type of body:** Foundation
Start date: 01/05/2006 , 2 years
Total amount: 20.880
- 28** **Name of the project:** Estudio de los parámetros críticos del proceso de fabricación de varistores basados en ZnO
Your role in the project: Researcher
Head researcher: A.C. Caballero
Funding body: INAEL S.A.
Start date: 12/2005 , 1 year
Total amount: 23.047
- 29** **Name of the project:** Mecanismos de compactación en cerámicas dieléctricas.
Project type: Industrial research **Project area:** National
Your role in the project: Scientific co-ordinator
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head researcher: J. F. Fernández
Funding body: VICAR S.A
Start date: 01/07/2005 , 1 year
Total amount: 12.000
- 30** **Name of the project:** Dispositivos basados en Cerámicas Piezoeléctricas y Diafragmas Conductores para automoción.
Project type: Industrial research **Project area:** National
Your role in the project: Scientific co-ordinator
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head researcher: J. F. Fernández
Funding body: Fundación para la Investigación y Desarrollo en Transporte y Energía **Type of body:** Foundation
Start date: 06/2005 , 1 year
Total amount: 8.280
- 31** **Name of the project:** Dispositivos basados en Cerámicas Piezoeléctricas y Diafragmas Conductores para automoción.
Project type: Industrial research **Project area:** National
Your role in the project: Scientific co-ordinator
Type of body: State agency



Body where project took place: Instituto de Cerámica y Vidrio

Head researcher: J. F. Fernández

Funding body:

Fundación para la Investigación y Desarrollo en Transporte y Energía

Type of body: Foundation

Start date: 06/2005 , 1 year

Total amount: 8.280

32 Name of the project: Simulación de un proceso industrial de obtención de cargas para la producción de papel

Project type: Industrial research

Project area: National

Your role in the project: Scientific co-ordinator

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: Miguel Angel Rodríguez

Funding body:

Fábrica Nacional de Moneda y Timbre

Type of body: industrial

City : Madrid, Community of Madrid, Spain

Start date: 01/05/2005 , 2 months

Total amount: 9.876,54

33 Name of the project: Sistemas Inteligentes para conformado de pavimentos y revestimientos cerámicos

Project type: Industrial research

Project area: National

Your role in the project: Scientific co-ordinator

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: J. F. Fernández

Funding body:

MACER S.L.

Start date: 13/01/2005 , 2 years

Total amount: 150.000

34 Name of the project: Desarrollo nanoestructural de materiales para esmaltes avanzados

Project type: Industrial research

Project area: National

Your role in the project: Researcher

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: M. Villegas

Funding body:

FRITTA S.L.

Start date: 01/04/2004 , 2 years

Total amount: 48.000

35 Name of the project: Nanopartículas funcionalizadas para materiales ignífugos

Project type: Industrial research

Project area: National

Your role in the project: Scientific co-ordinator

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: J. F. Fernández

**Funding body:**

Fundación para la Investigación y Desarrollo en Transporte y Energía

Type of body: Foundation

Start date: 01/03/2004 , 2 years

Total amount: 18.000

36 Name of the project: Nanopartículas funcionalizadas para materiales ignífugos

Project type: Industrial research

Project area: National

Your role in the project: Scientific co-ordinator

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: J. F. Fernández

Funding body:

Fundación para la Investigación y Desarrollo en Transporte y Energía

Type of body: Foundation

Start date: 01/03/2004 , 2 years

Total amount: 18.000

37 Name of the project: Cerámicas Piezoeléctricas para excitación de estructuras metálicas en automoción.

Project type: Industrial research

Project area: National

Your role in the project: Researcher

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: M. Villegas

Funding body:

Fundación para la Investigación y Desarrollo en Transporte y Energía

Type of body: Foundation

Start date: 04/04/2003 , 1 year

Total amount: 7.000

38 Name of the project: Materiales piezoeléctricos con propiedades acústicas.

Project type: Industrial research

Project area: National

Your role in the project: Researcher

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: M. Villegas

Funding body:

CARTIF

Start date: 01/04/2003 , 2 months

Total amount: 3.000

39 Name of the project: Procesos de modificación superficial para nanofuncionalización.

Project type: Industrial research

Project area: National

Your role in the project: Scientific co-ordinator

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: J. F. Fernández

Funding body:

Fundación para la Investigación y Desarrollo en Transporte y Energía

Type of body: Foundation



Start date: 01/03/2003 , 1 year

Total amount: 20.880

- 40** **Name of the project:** Caracterización piezoeléctrica de materiales sinterizados por microondas.
Project type: Industrial research **Project area:** National
Your role in the project: Researcher
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head researcher: M. Villegas
Funding body: NASMET
Start date: 15/01/2003 , 3 months
Total amount: 3.000
- 41** **Name of the project:** Implantación de procesos productivos de polvo atomizado de cerámicas dieléctricas
Project type: Industrial research **Project area:** National
Your role in the project: Scientific co-ordinator
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head researcher: J. F. Fernández
Funding body: VICAR S.A
Start date: 05/2002 , 1 year
Total amount: 20
- 42** **Name of the project:** Surface modification methods for PZT. Piezoreinforced ceramics.
Project type: Industrial research **Project area:** Non EU International
Your role in the project: Co-ordinator of total project, network or consortium
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head researcher: J. F. Fernández
Funding body: Gres de Nules S.A./Keraben S.A.
EPCOS OHG
Start date: 15/04/2002 , 1 year
Total amount: 68.000
- 43** **Name of the project:** Procesos de prensado en polvo atomizado de varistor.
Project type: Industrial research **Project area:** National
Your role in the project: Researcher
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head researcher: A.C Caballero
Funding body: Industrias Químicas Benabent S.A.
Start date: 15/12/2001 , 4 months
Total amount: 20.586



- 44** **Name of the project:** Aplicación de las nanopartículas cerámicas a la mejora del comportamiento al fuego de materiales plásticos
Project type: Industrial research **Project area:** National
Your role in the project: Co-ordinator of total project, network or consortium
Head researcher: José F. Fernández
Funding body:
MAT2000-0194-P4-05
Start date: 11/2001 , 2 years
Total amount: 273.965,36 **Total amount for sub-project:** 47.119,35
- 45** **Name of the project:** Implantación de procesos alternativos de obtención de pastas cerámicas y polvo atomizado mediante modificación superficial de partículas. Implantación de procesos alternativos de obtención de pastas cerámicas y polvo atomizado mediante modificación superficial de partículas.
Project type: Industrial research **Project area:** National
Your role in the project: Co-ordinator of total project, network or consortium
Head researcher: José F. Fernández
Funding body:
CICYT PTR1995-0498-OP
Start date: 10/2001 , 1 year
Total amount: 270.000
- 46** **Name of the project:** Procesos de decoración en materiales cerámicos
Project type: Industrial research **Project area:** National
Your role in the project: Co-ordinator of total project, network or consortium
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head researcher: J. F. Fernández
Funding body:
Gres de Nules S.A./Keraben S.A.
Start date: 05/2001 , 2 years
Total amount: 134.000
- 47** **Name of the project:** Propiedades electromecánicas de esmaltes reforzados
Project type: Industrial research **Project area:** National
Your role in the project: Researcher
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head researcher: M. Villegas
Funding body:
FRITTA S.L.
Start date: 03/2001 , 3 years
Total amount: 60.000
- 48** **Name of the project:** PROYECTO EUREKA EU2309 Tecnologías de Producción de Microsensores Piezoeléctricos
Project type: Industrial research **Project area:** National
Your role in the project: Co-ordinator of total project, network or consortium
Head researcher: José F. Fernández
Funding body:
MCyT FIT-020100-2001-938



Start date: 01/2001 , 3 years

Total amount: 287.796,66

49 Name of the project: Sistema de seguridad para suministro eléctrico en líneas de tren de alta velocidad

Project type: Industrial research

Project area: National

Your role in the project: Co-ordinator of total project, network or consortium

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: J. F. Fernández

Funding body:

CICYT (COO1999AX012).

Start date: 12/2000 , 3 years

Total amount: 360.000

50 Name of the project: Procesos de homogeneización de barbotinas cerámicas

Project type: Industrial research

Project area: National

Your role in the project: Researcher

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: M. Villegas

Funding body:

Gres de Nules S.A.

Start date: 11/2000 , 1 year

Total amount: 6.000

51 Name of the project: Influence of PbO content on microstructure and electrical properties of soft PZT

Project type: Industrial research

Project area: Non EU International

Your role in the project: Scientific co-ordinator

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: J.F. Fernandez

Funding body:

EPCOS OHG

Start date: 06/2000 , 1 year

Total amount: 64.000

52 Name of the project: Diseño y desarrollo de un proceso de obtención de varistores de altas prestaciones

Project type: Industrial research

Project area: National

Your role in the project: Co-ordinator of total project, network or consortium

Body where project took place: Instituto de Cerámica y Vidrio

Type of body: State agency

Head researcher: J. F. Fernández

Funding body:

CICYT (PTR1995-0364-OP), Keraben S.A. e INAEL S.A.

Start date: 02/2000 , 1 year

Total amount: 180.000



- 53** **Name of the project:** Diseño y desarrollo de un proceso de obtención de varistores de altas prestaciones
Project type: Industrial research **Project area:** National
Your role in the project: Scientific co-ordinator
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head researcher: J.F. Fernandez
Funding body: Gres de Nules Keraben S.A. e INAEL S.A.
Start date: 01/1999 , 1 year
Total amount: 21.000
- 54** **Name of the project:** Caracterización y catalogación de nuevas pastas cerámicas de formulación dieléctrica
Project type: Industrial research **Project area:** National
Your role in the project: Scientific co-ordinator
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head researcher: J.F. Fernandez
Funding body: VICAR S.A.
Start date: 11/1998 , 4 months
Total amount: 6.000
- 55** **Name of the project:** Estudio sobre Materiales Electrocerámicos de interés industrial: Tecnología, Mercado y Empresas Activas
Project type: Industrial research **Project area:** National
Your role in the project: Scientific co-ordinator
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head researcher: J.F. Fernandez
Funding body: KERABEN S.A.
Start date: 04/1998 , 9 months
Total amount: 18.000
- 56** **Name of the project:** Caracterización de Materiales Cerámicos Aislantes
Project type: Industrial research **Project area:** National
Your role in the project: Scientific co-ordinator
Body where project took place: Instituto de Cerámica y Vidrio **Type of body:** State agency
Head researcher: J.F. Fernandez
Funding body: Morgan matroc S.A.
Start date: 09/1997 , 4 months
Total amount: 3.600
- 57** **Name of the project:** Diseño y desarrollo de pastas cerámicas para la obtención de placas de radiación infrarroja
Project type: Industrial research **Project area:** National
Your role in the project: Co-ordinator of total project, network or consortium



Body where project took place: Instituto de Cerámica y Vidrio

Head researcher: J. F. Fernández

Funding body:

Morgan Matroc S.A.- CICYT (95-0194-OP)

Start date: 02/1997 , 1 year

Total amount: 120.000

Type of body: State agency

58 Name of the project: Evolución de la porosidad y microestructura de las placas de butano

Project type: Industrial research

Your role in the project: Scientific co-ordinator

Body where project took place: Instituto de Cerámica y Vidrio

Head researcher: J.F. Fernandez

Funding body:

Morgan matroc S.A.

Start date: 03/1996 , 5 months

Total amount: 4.200

Project area: National

Type of body: State agency

59 Name of the project: Diseño del software para la caracterización eléctrica de materiales poliméricos

Project type: Industrial research

Your role in the project: Researcher

Body where project took place: Instituto de Cerámica y Vidrio

Head researcher: C. Moure

Funding body:

REPSOL QUIMICA S.A.

Start date: 1991, 1 year

Total amount: 24.000

Project area: National

Type of body: State agency

60 Name of the project: Estudio de nuevas rutas en la preparación de polvos cerámicos superconductores

Project type: Industrial research

Your role in the project: Researcher

Body where project took place: Instituto de Cerámica y Vidrio

Head researcher: P. Duran

Funding body:

RIO RODANO, S.A.

Start date: 1989, 2 years

Total amount: 60.000

Project area: National

Type of body: State agency

61 Name of the project: Estudio de materiales ceramicos basados en BaTiO3

Project type: Industrial research

Your role in the project: Researcher

Body where project took place: Instituto de Cerámica y Vidrio

Head researcher: P. Duran

Funding body:

RIO RODANO, S.A.

Project area: National

Type of body: State agency



Start date: 1987, 3 years

Total amount: 90.000

Results

Intellectual and industrial property. Know how and industrial secrets

1 **Name:** "Procedimiento para la obtención de un recubrimiento sol-gel en superficies con esmalte cerámicos vitrificados y recubrimiento obtenido".

Type of industrial property: Patent of invention **Author's rights:** Yes

Business secret: Yes

Inventors / authors / obtainers: F. González; A. J. de Albuquerque; J. Balcells; A. Quintana; J.F. Fernandez; E. Enriquez; M. A. de la Rubia; M. García; M. A. Rodríguez

Patent holding body: ROCA SANITARIO SA -CSIC

Application number: P201130230

Priority country: Spain

Date: 22/02/2011

Date awarded: 25/10/2012

Patent number: ES2389349 A1

Spain patent: Yes

PCT patent: Yes

Licences: Yes

Commercial use, exclusive: Yes

Results: Success

Most relevant results: Licencia a ROCA SANITARIO SA de 17 febrero 2011.

2 **Name:** "Composición y procedimiento de obtención de azulejos cerámicos de gres porcelánico reforzados".

Type of industrial property: Patent of invention **Author's rights:** Yes

Business secret: Yes

Inventors / authors / obtainers: J.F. Fernandez; J. J. Reinoso; E. Vela; F. García

Patent holding body: Cotitularidad 50% CSIC y 50% VICAR S.A.

Application number: P201231481

Date: 25/09/2012

Patent number: P201231481

Spain patent: Yes

Licences: Yes

Commercial use, exclusive: Yes

Generation of an innovative company: No **Results:** Success

Most relevant results: Licencia a VICAR SA 17/09/2012

3 **Name:** Procedimiento para la obtención de un recubrimiento sol-gel híbrido en superficies con esmalte cerámicos vitrificados y recubrimiento obtenido

Type of industrial property: Patent of invention **Author's rights:** Yes

Inventors / authors / obtainers: M.A. RODRIGUEZ; M.A. GARCIA; M. A. DE LA RUBIA; E ENRIQUEZ; J. F. FERNANDEZ; A QUINTANA; J BALCELLS; A. J. ALBURQUERQUE; F GONZALEZ

Application number: p201130231

Priority country: Spain

Date: 22/02/2011

Date awarded: 18/09/2012



Patent number: ES2387222
Spain patent: Yes
Licences: Yes
Commercial use, exclusive: Yes

- 4** **Name:** "Combinación y procedimiento de obtención de esmaltes cerámicos bactericidas para productos cerámicos".
Type of industrial property: Patent of invention **Author's rights:** Yes
Business secret: Yes
Patent holding body: Cotitularidad 33,4% CSIC, 3,33% Nanobiomatters Industries S.L. y 33,3% Kerafrit.
Application number: PCT/ES2012/070655
Date: 18/08/2012
Patent number: PCT/ES2012/070655
Spain patent: Yes
PCT patent: Yes
Licences: Yes
Commercial use, exclusive: Yes
Results: Success
Most relevant results: Licencia a Kerafrit SA y Nanobiomatters Industries SL 01/09/2012
- 5** **Name:** "Method for producing a domestic appliance plate and domestic appliance device having a domestic appliance plate".
Type of industrial property: Patent of invention **Author's rights:** Yes
Business secret: Yes
Inventors / authors / obtainers: M. A. Bunuel; M. A. Caballero; S. Ejarque; F.J. Ester Sola; J. F. Fernandez; F. Ferrando; J. R. García; D. Martín; F. Planas
Patent holding body: BSH BOSCH SIEMENS HAUSGERAETE [DE]; MINERA CATALANO ARAGONESA SAMCA SA [ES]
Application number: ES2385082 (A1)
Date: 18/07/2012
Patent number: ES2385082 (A1)
Spain patent: Yes **European patent:** Yes
International non-EU patent: Yes
Licences: Yes
Commercial use, exclusive: Yes
- 6** **Name:** "Method for producing a domestic appliance plate and domestic appliance device having a domestic appliance plate".
Type of industrial property: Patent of invention **Author's rights:** Yes
Business secret: Yes
Inventors / authors / obtainers: M. A. Bunuel; M. A. Caballero; S. Ejarque; F.J. Ester Sola; J. F. Fernandez; F. Ferrando; J. R. García; D. Martín; F. Planas
Patent holding body: BSH BOSCH SIEMENS HAUSGERAETE [DE]; MINERA CATALANO ARAGONESA SAMCA SA [ES]
Application number: WO2012085763 (A1)
Date: 28/06/2012
Patent number: WO2012085763 (A1)
Spain patent: Yes **European patent:** Yes
International non-EU patent: Yes
Licences: Yes
Commercial use, exclusive: Yes



- 7** **Name:** "Water-repelling ceramic enamel having a metallic shine and method for producing same"
Type of industrial property: Patent of invention **Author's rights:** Yes
Business secret: Yes
Inventors / authors / obtainers: J.F. Fernandez; J. J. Reinoso; J. J. Romero; V. Orta; P. J. Jaquotot; M.A. Bengochea
Patent holding body: Consejo Superior de Investigaciones Científicas
Application number: WO2012066172 (A1)
Date: 11/06/2012
Patent number: WO2012066172 (A1)
Spain patent: Yes
Licences: Yes
Commercial use, exclusive: Yes
Results: Success
Most relevant results: Licencia de patente a Kerafrit SA el 27 junio 2011.
- 8** **Name:** "Esmalte cerámico hidrofóbico y su procedimiento de obtención".
Type of industrial property: Patent of invention **Author's rights:** Yes
Business secret: Yes
Inventors / authors / obtainers: J.F. Fernandez; J. J. Reinoso; J. J. Romero; V. Orta; P. J. Jaquotot; M.A. Bengochea
Patent holding body: Consejo Superior de Investigaciones Científicas
Application number: ES2382514 (A1)
Date: 11/06/2012
Patent number: ES2382514 (A1)
Spain patent: Yes
Licences: Yes
Commercial use, exclusive: Yes
Results: Success
Most relevant results: Licencia de patente a Kerafrit SA el 27 junio 2011.
- 9** **Name:** "Method for dry dispersion of nanoparticles and production of hierarchical structures and coatings".
Type of industrial property: Patent of invention **Author's rights:** Yes
Business secret: Yes
Inventors / authors / obtainers: J. F. Fernández; I. Lorite; F. Rubio-Marcos; J. J. Romero; M. A. García; A. Quesada; M. S. Martín-González; J. L. Costa-Kramer
Patent holding body: Consejo Superior de Investigaciones Científicas
Application number: US2012107405 (A1)
Priority country: United States of America
Date: 01/05/2012
Patent number: US2012107405 (A1)
Spain patent: Yes
Licences: Yes
Commercial use, exclusive: Yes
Generation of an innovative company: Yes **Results:** Success
Most relevant results: Licencia exclusiva de patente a Advanced Dispersed Particles S.L. el 14 diciembre 2011.
- 10** **Name:** "Method for dry dispersion of nanoparticles and production of hierarchical structures and coatings".
Type of industrial property: Patent of invention **Author's rights:** Yes
Business secret: Yes



Inventors / authors / obtainers: J. F. Fernández; I. Lorite; F. Rubio-Marcos; J. J. Romero; M. A. García; A. Quesada; M. S. Martín-González; J. L. Costa-Kramer

Patent holding body: Consejo Superior de Investigaciones Científicas

Application number: JP 2011-530394

Priority country: Japan

Date: 22/12/2011

Patent number: JP 2011-530394

Spain patent: Yes

Licences: Yes

Commercial use, exclusive: Yes

Generation of an innovative company: Yes **Results:** Success

Most relevant results: Licencia exclusiva de patente a Advanced Dispersed Particles S.L. el 14 diciembre 2011.

11 Name: "Procedimiento de obtención de estructuras ordenadas jerárquicamente de fosfatos inorgánicos sobre filosilicatos".

Type of industrial property: Patent of invention **Author's rights:** Yes

Business secret: Yes

Inventors / authors / obtainers: A. Esteban-Cubillo; J. Santaren; E. Aguilar; A. Alvarez; E. Palacios; P. Leret; J. F. Fernandez; A. H. de Aza

Patent holding body: TOLSA S.A.

Application number: P201132063

Date: 21/12/2011

Patent number: P201132063

Spain patent: Yes

12 Name: "Combinación y procedimiento de obtención de esmaltes cerámicos bactericidas para productos cerámicos".

Type of industrial property: Patent of invention **Author's rights:** Yes

Business secret: Yes

Patent holding body: Cotitularidad 33,4% CSIC, 3,33% Nanobiomatters Industries S.L. y 33,3% Kerafrit.

Application number: P201131517

Date: 20/09/2011

Patent number: P201131517

Spain patent: Yes

PCT patent: Yes

Licences: Yes

Commercial use, exclusive: Yes

Results: Success

Most relevant results: Licencia a Kerafrit SA y Nanobiomatters Industries SL 01/09/2012

13 Name: "Catalizadores jerárquicamente organizados mediante nanodispersión por vía seca".

Type of industrial property: Patent of invention **Author's rights:** Yes

Business secret: Yes

Inventors / authors / obtainers: J. F. Fernández; F. Rubio-Marcos; V. Calvino; M. A. Bañares

Patent holding body: Consejo Superior de Investigaciones Científicas

Application number: P201031234

Priority country: Spain

Date: 06/08/2010

Date awarded: 08/07/2011

Patent number: PCT/ES2011/070504



Spain patent: Yes

PCT patent: Yes

Most relevant results: Licencia exclusiva de patente a Advanced Dispersed Particles S.L. el 14 diciembre 2011.

- 14** **Name:** "Method for dry dispersion of nanoparticles and production of hierarchical structures and coatings".
Type of industrial property: Patent of invention **Author's rights:** Yes
Business secret: Yes
Inventors / authors / obtainers: J. F. Fernández; I. Lorite; F. Rubio-Marcos; J. J. Romero; M. A. García; A. Quesada; M. S. Martín-González; J. L. Costa-Kramer
Patent holding body: Consejo Superior de Investigaciones Científicas
Application number: CN 102099100 (A)
Date: 15/06/2011
Patent number: CN 102099100 (A)
Spain patent: Yes
Licences: Yes
Commercial use, exclusive: Yes
Generation of an innovative company: Yes **Results:** Success
Most relevant results: Licencia exclusiva de patente a Advanced Dispersed Particles S.L. el 14 diciembre 2011.
- 15** **Name:** "Uso de marcadores Raman para autenticación de documentos de seguridad".
Type of industrial property: Patent of invention **Author's rights:** Yes
Business secret: Yes
Inventors / authors / obtainers: J. J. Romero; M. García-Juez; J. F. Fernández; J. Gamó; M. A. Rodríguez; A. Ruiz; I. Lorite
Patent holding body: CSIC-Fabrica Nacional de la Moneda y Timbre-Real Casa de la Moneda
Application number: EP11382183.9
Priority country: Spain
Date: 02/06/2011
Patent number: EP11382183.9
Spain patent: Yes
Licences: Yes
Commercial use, exclusive: Yes
Results: Success
Most relevant results: En trámite de licencia a Fabrica Nacional de la Moneda y Timbre-Real Casa de la Moneda
- 16** **Name:** "Method for dry dispersion of nanoparticles and production of hierarchical structures and coatings".
Type of industrial property: Patent of invention **Author's rights:** Yes
Business secret: Yes
Inventors / authors / obtainers: J. F. Fernández; I. Lorite; F. Rubio-Marcos; J. J. Romero; M. A. García; A. Quesada; M. S. Martín-González; J. L. Costa-Kramer
Patent holding body: Consejo Superior de Investigaciones Científicas
Application number: EP 2319613 (A1)
Date: 11/05/2011
Patent number: EP 2319613 (A1)
Spain patent: Yes
Licences: Yes
Commercial use, exclusive: Yes
Generation of an innovative company: Yes **Results:** Success



Most relevant results: Licencia exclusiva de patente a Advanced Dispersed Particles S.L. el 14 diciembre 2011.

- 17** **Name:** "Method for dry dispersion of nanoparticles and production of hierarchical structures and coatings".
Type of industrial property: Patent of invention **Author's rights:** Yes
Business secret: Yes
Inventors / authors / obtainers: J. F. Fernández; I. Lorite; F. Rubio-Marcos; J. J. Romero; M. A. García; A. Quesada; M. S. Martín-González; J. L. Costa-Kramer
Patent holding body: Consejo Superior de Investigaciones Científicas
Application number: KR 20110040945 (A)
Date: 20/04/2011
Patent number: KR 20110040945 (A)
Spain patent: Yes
Licences: Yes
Commercial use, exclusive: Yes
Generation of an innovative company: Yes **Results:** Success
Most relevant results: Licencia exclusiva de patente a Advanced Dispersed Particles S.L. el 14 diciembre 2011.
- 18** **Name:** "Uso de marcadores absorbentes de ondas electromagnéticas para autenticación de documentos de seguridad".
Type of industrial property: Patent of invention **Author's rights:** Yes
Business secret: Yes
Inventors / authors / obtainers: J. J. Romero; M. García-Juez; J. F. Fernández; J. Gamó; M. A. Rodríguez
Patent holding body: CSIC-Fabrica Nacional de la Moneda y Timbre-Real Casa de la Moneda
Application number: EP11382093
Priority country: Spain
Date: 01/04/2011
Patent number: EP11382093
Spain patent: Yes
Licences: Yes
Commercial use, exclusive: Yes
Results: Success
Most relevant results: En trámite de licencia a Fabrica Nacional de la Moneda y Timbre-Real Casa de la Moneda
- 19** **Name:** "Method for producing a sol-gel coating on surfaces with vitreous ceramic enamels and coating thus produced"
Type of industrial property: Patent of invention **Author's rights:** Yes
Business secret: Yes
Inventors / authors / obtainers: F. González; A. J. de Albuquerque; J. Balcells; A. Quintana; J.F. Fernandez; E. Enriquez; M. A. de la Rubia; M. García; M. A. Rodríguez
Patent holding body: ROCA SANITARIO SA -CSIC
Application number: P201130231
Priority country: Spain
Date: 22/02/2011
Patent number: WO2012113953 A1
Spain patent: Yes
PCT patent: Yes
Licences: Yes
Commercial use, exclusive: Yes
Results: Success



Most relevant results: Licencia a ROCA SANITARIO SA de 17 febrero 2011.

- 20** **Name:** "Method for dry dispersion of nanoparticles and production of hierarchical structures and coatings".
Type of industrial property: Patent of invention **Author's rights:** Yes
Business secret: Yes
Inventors / authors / obtainers: J. F. Fernández; I. Lorite; F. Rubio-Marcos; J. J. Romero; M. A. García; A. Quesada; M. S. Martín-González; J. L. Costa-Kramer
Patent holding body: Consejo Superior de Investigaciones Científicas
Application number: ES 2332079 (B1)
Priority country: Spain
Date: 27/10/2010
Patent number: ES 2332079 (B1)
Spain patent: Yes
Licences: Yes
Commercial use, exclusive: Yes
Generation of an innovative company: Yes **Results:** Success
Most relevant results: Licencia exclusiva de patente a Advanced Dispersed Particles S.L. el 14 diciembre 2011.
- 21** **Name:** "Method for dry dispersion of nanoparticles and production of hierarchical structures and coatings".
Type of industrial property: Patent of invention **Author's rights:** Yes
Business secret: Yes
Inventors / authors / obtainers: J. F. Fernández; I. Lorite; F. Rubio-Marcos; J. J. Romero; M. A. García; A. Quesada; M. S. Martín-González; J. L. Costa-Kramer
Patent holding body: Consejo Superior de Investigaciones Científicas
Application number: WO2010/010220 A1
Date: 28/01/2010
Patent number: WO2010/010220 A1
Spain patent: Yes
Licences: Yes
Commercial use, exclusive: Yes
Generation of an innovative company: Yes **Results:** Success
Most relevant results: Licencia exclusiva de patente a Advanced Dispersed Particles S.L. el 14 diciembre 2011.
- 22** **Name:** "Procedimiento para la dispersión de nanopartículas en seco y la obtención de estructuras jerárquicas y recubrimientos".
Type of industrial property: Patent of invention **Author's rights:** Yes
Business secret: Yes
Inventors / authors / obtainers: J. F. Fernández; I. Lorite; F. Rubio-Marcos; J. J. Romero; M. A. García; A. Quesada; M. S. Martín-González; J. L. Costa-Kramer
Patent holding body: Consejo Superior de Investigaciones Científicas
Application number: ES2332079
Priority country: Spain
Date: 25/01/2010
Patent number: ES2332079
Spain patent: Yes
Licences: Yes
Commercial use, exclusive: Yes
Generation of an innovative company: Yes **Results:** Success
Most relevant results: Licencia exclusiva de patente a Advanced Dispersed Particles S.L. el 14 diciembre 2011.



- 23** **Name:** "Método de acondicionamiento de materiales minerales como aditivos de seguridad".
Description of qualities: En explotación Fabrica Nacional de la Moneda y Timbre-Real Casa de la Moneda
Type of industrial property: Patent of invention **Author's rights:** Yes
Business secret: Yes
Inventors / authors / obtainers: Antonio Olmos; José Mendia; Javier Baraja; Juan A. Rubio; Miguel A. Rodríguez; José F. Fernández
Patent holding body: Titularidad FNMT-RCM
Application number: ES 2317790A1
Date: 16/04/2009
Patent number: ES 2317790A1
Spain patent: Yes
Licences: Yes
Commercial use, exclusive: Yes
Results: Success
- 24** **Name:** "Method for conditioning mineral materials such as safety additives".
Description of qualities: En explotación Fabrica Nacional de la Moneda y Timbre-Real Casa de la Moneda
Type of industrial property: Patent of invention **Author's rights:** Yes
Business secret: Yes
Inventors / authors / obtainers: Antonio Olmos; José Mendia; Javier Baraja; Juan A. Rubio; Miguel A. Rodríguez; José F. Fernández
Patent holding body: Titularidad FNMT-RCM
Application number: WO2009043948A1
Date: 09/04/2009
Patent number: WO2009043948A1
Spain patent: Yes
Licences: Yes
Commercial use, exclusive: Yes
Results: Success
- 25** **Name:** "Esmalte cerámico con brillo metálico: Procedimiento de obtención de y aplicación"
Description of qualities: Licenciada a KERABEN S.A. y Kerafrit S.A. 30/11/2008
Type of industrial property: Patent of invention **Author's rights:** Yes
Business secret: Yes
Inventors / authors / obtainers: A. Esteban; J. S. Moya; C. Pecharroman; J.F. Fernandez; R. Pina; J. J. Reinos
Patent holding body: Consejo Superior de Investigaciones Científicas
Application number: WO2008/152174 A1
Date: 18/12/2008
Patent number: WO2008/152174 A1
Spain patent: Yes
Licences: Yes
Commercial use, exclusive: Yes
Results: Success
- 26** **Name:** "Esmalte cerámico con brillo metálico: Procedimiento de obtención de y aplicación"
Description of qualities: Licenciada a KERABEN S.A. y Kerafrit S.A. 30/11/2008
Type of industrial property: Patent of invention **Author's rights:** Yes
Business secret: Yes



Inventors / authors / obtainers: A. Esteban; J. S. Moya; C. Pecharroman; J.F. Fernandez; R. Pina; J. J. Reinos

Patent holding body: Consejo Superior de Investigaciones Científicas

Application number: ES2310139 B1

Date: 16/12/2008

Patent number: ES2310139 B1

Spain patent: Yes

Licences: Yes

Commercial use, exclusive: Yes

Results: Success

27 Name: "Moldes Inteligentes para el prensado de pavimento y revestimiento cerámico"

Description of qualities: En explotación MACER S.L

Type of industrial property: Patent of invention **Author's rights:** Yes

Business secret: Yes

Inventors / authors / obtainers: A. Poyatos; J.F. Fernandez; M. P. Ochoa; F. J. Jimenez; J. De Frutos; M. A. Rodríguez

Patent holding body: ITTO20070047 A1 (Titularidad Macer S.L.)

Application number: ES2296499 B1

Date: 28/11/2008

Patent number: ES2201912

Spain patent: Yes

Licences: Yes

Commercial use, exclusive: Yes

Results: Success

Most relevant results: Galardonada con ALFA de ORO en CEVISAMA 2006.

28 Name: "Configuración y proceso de fabricación de motores ultrasónicos con estator de características variables mediante electrodos segmentados"

Type of industrial property: Patent of invention **Author's rights:** Yes

Business secret: Yes

Inventors / authors / obtainers: J. L. Pons; J.F. Fernandez; M. Villegas; A. C. Caballero; D. Mesonero-romanos; R. Ceres; L. Calderón; J. M. Martín; A. R. Jimenez

Patent holding body: Consejo Superior de Investigaciones Científicas

Application number: ES2201912

Date: 01/06/2005

Patent number: ES2201912

Spain patent: Yes

29 Name: "Proceso Flexible de decoración de materiales cerámicos".(Flexible method of decorating ceramic products)"

Description of qualities: Licenciada a KERABEN S.A. 15/02/03. Marca Registrada: TAPEDECOR

Type of industrial property: Patent of invention **Author's rights:** Yes

Business secret: Yes

Inventors / authors / obtainers: J.F. Fernandez; E. Solera; A. C. Caballero; M. Villegas

Patent holding body: Consejo Superior de Investigaciones Científicas

Application number: ES2190360 (B1)

Date: 01/02/2005

Patent number: ES2190360 (B1)

Spain patent: Yes

Licences: Yes



Commercial use, exclusive: Yes

- 30** **Name:** "Proceso Flexible de decoración de materiales cerámicos".(Flexible method of decorating ceramic products).
Description of qualities: Licenciada a KERABEN S.A. 15/02/03. Marca Registrada: TAPEDECOR
Type of industrial property: Patent of invention **Author's rights:** Yes
Business secret: Yes
Inventors / authors / obtainers: J.F. Fernandez; E. Solera; A. C. Caballero; M. Villegas
Patent holding body: Consejo Superior de Investigaciones Científicas
Application number: WO03029167 (A1)
Date: 10/04/2003
Patent number: WO03029167 (A1)
Spain patent: Yes **European patent:** Yes
International non-EU patent: Yes
Licences: Yes
Commercial use, exclusive: Yes
- 31** **Name:** "Procedimiento de preparación reproducible de polvos cerámicos de YBa₂Cu₃O_x superconductores de alta T_c y de sus materiales sinterizados"
Type of industrial property: Patent of invention **Author's rights:** Yes
Business secret: Yes
Inventors / authors / obtainers: J.F. Fernandez; J.E. Rodríguez-Páez; A. C. Caballero; M. Villegas; P. Durán; C. Moure
Patent holding body: Consejo Superior de Investigaciones Científicas
Application number: ES2176083
Date: 16/11/2002
Patent number: ES2176083
Spain patent: Yes
- 32** **Name:** "Método de obtención de partículas de ZnO con morfología acicular".
Type of industrial property: Patent of invention **Author's rights:** Yes
Business secret: Yes
Inventors / authors / obtainers: J.F. Fernandez; J.E. Rodríguez-Páez; A. C. Caballero; M. Villegas; P. Durán; C. Moure
Patent holding body: Consejo Superior de Investigaciones Científicas
Application number: ES2170675
Date: 01/08/2002
Date awarded: 01/08/2002
Patent number: ES2170675
Spain patent: Yes
- 33** **Name:** "Procedimiento de preparación reproducible de polvos cerámicos de YBa₂Cu₃O_x superconductores de alta T_c y de sus materiales sinterizados"
Type of industrial property: Patent of invention **Author's rights:** Yes
Business secret: Yes
Inventors / authors / obtainers: P. Durán; J. Tartaj; C. Moure; J.F. Fernandez
Patent holding body: Consejo Superior de Investigaciones Científicas
Application number: 9002996
Date: 1990
Date awarded: 1990
Patent number: 9002996



Spain patent: Yes

Technological results arising from expert activities and knowledge transfer (not included in other sections of the CV)

Description: FUNDADOR DE EMPRESAS DE BASE TECNOLÓGICA: Advanced Dispersed Particles S.L. B-86299211 Constituida el 26 de septiembre de 2011 ante el notario D. Ignacio Gil-Antuño Vizcaino con nº 4298 e inscrita en el Registro Mercantil de Madrid tomo 29.160 folio 148 Sección 8 hoja M-525027 inscripción 1. Socio Promotor 10% participación del capital social. Firmado contrato de licencia exclusiva de patentes con el CSIC el 14-12-2011.

Name of head researcher: J.F. FERNANDEZ

Your role in the project: Co-ordinator of total project, network or consortium

New equipment techniques: Yes

Spin-off companies based on R&D&I results: Yes

Improvements to products results: Yes

Expert technician: Yes

Area of the activity: Non EU International

Activity start date: 26/09/2011

Most relevant results: Advanced Dispersed Particles S.L. is a spin off company founded in 2011 to exploit the CSIC patented technology of dry dispersion of nanoparticles. One of the main problems on working with nanoparticles is their tendency to form strong, difficult to break agglomerates. The advantage of the dry dispersion technology is to maximize the efficiency of the nanoparticles by means of the accessibility increasing to the surface of all nanoparticles. In this way, the final products have to use lower nanoparticle load to get the desired effect, reducing the cost of their use. On the other hand, the final particles do not have security risks regarding its nanometric dimension due their anchoring forming a hierarchic structure. Moreover, this technology has open new applications and properties, as the appearance of new proximity magnetic properties or the enhanced catalytic properties of nanoparticles dispersions.

Scientific Activities and General Techniques

Scientific production

H index: 24

Date: 07/11/2012

Publications, Scientific and Technical Documents and any other publication

- 1 E. Enriquez; J. F. Fernandez; M. A. de la Rubia. Highly conductive coatings of carbon black/silica composites obtained by a sol-gel process. CARBON. 50 - 12, pp. 4409 - 4417. 10/2012 .ISSN 0008-6223
Type of production: Article **Type of platform:** Journal
- 2 E. Palacios; P. Leret; J. F. Fernandez; A. H. De Aza; M. A. Rodriguez. Synthesis of amorphous acid iron phosphate nanoparticles. JOURNAL OF NANOPARTICLE RESEARCH. 14 - 10, 10/2012 .ISSN 1388-0764
Type of production: Article **Type of platform:** Journal
- 3 Jaime Martin; Marisol Martin-Gonzalez; Adolfo del Campo; Julian J. Reinoso; Jose Francisco Fernandez. Ordered arrays of polymeric nanopores by using inverse nanostructured PTFE surfaces. NANOTECHNOLOGY. 23 - 38, 09/2012 .ISSN 0957-4484



Type of production: Article

Type of platform: Journal

- 4** M. A. de la Rubia; P. Leret; A. del Campo; R. E. Alonso; A. R. Lopez-Garcia; J. F. Fernandez; J. de Frutos. Dielectric behaviour of Hf-doped CaCu₃Ti₄O₁₂ ceramics obtained by conventional synthesis and reactive sintering. JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. 32 - 8, pp. 1691 - 1699. 07/2012 .ISSN 0955-2219
Type of production: Article **Type of platform:** Journal
- 5** I. Lorite; A. del Campo; J. J. Romero; J. F. Fernandez. Isolated Nanoparticle Raman Spectroscopy. JOURNAL OF RAMAN SPECTROSCOPY. 43 - 7, pp. 889 - 894. 07/2012 .ISSN 0377-0486
Type of production: Article **Type of platform:** Journal
- 6** E. Enriquez; M. A. Garcia; N. Carmona; J. F. Fernandez; M. A. de la Rubia. Quinine doped hybrid sol-gel coatings for wave guiding and optical applications. JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY. 62 - 3, pp. 324 - 332. 06/2012 .ISSN 0928-0707
Type of production: Article **Type of platform:** Journal
- 7** Miguel A. de la Rubia; Pilar Leret; Jose de Frutos; Jose F. Fernandez. Effect of the Synthesis Route on the Microstructure and the Dielectric Behavior of CaCu₃Ti₄O₁₂ Ceramics. JOURNAL OF THE AMERICAN CERAMIC SOCIETY. 95 - 6, pp. 1866 - 1870. 06/2012 .ISSN 0002-7820
Type of production: Article **Type of platform:** Journal
- 8** Israel Lorite; M. S. Martin-Gonzalez; J. J. Romero; M. A. Garcia; Jose L. G. Fierro; Jose F. Fernandez. Electrostatic charge dependence on surface hydroxylation for different Al₂O₃ powders. CERAMICS INTERNATIONAL. 38 - 2, pp. 1427 - 1434. 03/2012 .ISSN 0272-8842
Type of production: Article **Type of platform:** Journal
- 9** Israel Lorite; Miguel Angel Rodriguez; Feridoon Azough; Robert Freer; Jose Francisco Fernandez. ZnAl₂O₄ and (0.79)ZnAl₂O₄-(0.21)Mn₂TiO₄ Microwave Dielectric Ceramics Prepared by Hot Pressing and Spark Plasma Sintering. JOURNAL OF THE AMERICAN CERAMIC SOCIETY. 95 - 3, pp. 1023 - 1028. 03/2012 .ISSN 0002-7820
Type of production: Article **Type of platform:** Journal
- 10** M. A. de la Rubia; J. J. Reinoso; P. Leret; J. J. Romero; J. de Frutos; J. F. Fernandez. Experimental determination of the eutectic temperature in air of the CuO-TiO₂ pseudobinary system. JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. 32 - 1, pp. 71 - 76. 01/2012 .ISSN 0955-2219
Type of production: Article **Type of platform:** Journal
- 11** A. Espinosa; A. Serrano; A. Llavona; J. Jimenez de la Morena; M. Abuin; A. Figuerola; T. Pellegrino; J. F. Fernandez; M. Garcia-Hernandez; G. R. Castro; M. A. Garcia. On the discrimination between magnetite and maghemite by XANES measurements in fluorescence mode. MEASUREMENT SCIENCE & TECHNOLOGY. 23 - 1, 01/2012 .ISSN 0957-0233
Type of production: Article **Type of platform:** Journal
- 12** Fernando Rubio-Marcos; Adolfo Del Campo; Rigoberto Lopez-Juarez; Juan J. Romero; Jose F. Fernandez. High spatial resolution structure of (K,Na)NbO₃ lead-free ferroelectric domains. JOURNAL OF MATERIALS CHEMISTRY. 22 - 19, pp. 9714 - 9720. 2012. ISSN 0959-9428
Type of production: Article **Type of platform:** Journal
- 13** J. J. Reinoso; J. J. Romero; P. Jaquotot; M. A. Bengochea. Copper based hydrophobic ceramic nanocoatings. Journal of the European Ceramic Society. 32, pp. 277 - 282. 2012.
Type of production: Article **Type of platform:** Journal



- 14** M. A. de la Rubia; P. Leret; J. de Frutos; J. F. Fernández. Effect of the Synthesis Route on the Microstructure and the Dielectric Behavior of CaCu₃Ti₄O₁₂ Ceramics. *Journal of the American Ceramic Society*. 95 - 6, pp. 1866 - 1870. 2012.
Type of production: Article **Type of platform:** Journal
- 15** I. Lorite; J. J. Romero; J. F. Fernández. Effect of the agglomeration state on the Raman properties of Co₃O₄ Nanoparticles. *Journal of Raman Spectroscopy*. 43, pp. 1443 - 1448. 2012.
Type of production: Article **Type of platform:** Journal
- 16** J.J. Reinosa; Juan.J. Romero; M.A. de la Rubia; A. del Campo; J.F. Fernández. Inorganic hydrophobic coatings: Surfaces mimicking the nature. *Ceramics International*. 2012. Disponible en Internet en: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84866512260&partnerID=40&md5=7a5d2447a8dc8331bdf254953fb9b21c>>.
Type of production: Article **Type of platform:** Journal
- 17** I. Lorite; J.J. Romero; J.F. Fernández. Study of the nanoparticle/microparticle powder systems by dry dispersion. *Ceramics International*. 2012. Disponible en Internet en: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84865318740&partnerID=40&md5=bd17bb40240c98c66e0b5279a8ef4f59>>.
Type of production: Article **Type of platform:** Journal
- 18** V. Calvino-Casilda; G. Mul; J. F. Fernandez; F. Rubio-Marcos; M. A. Banares. Monitoring the catalytic synthesis of glycerol carbonate by real-time attenuated total reflection FTIR spectroscopy. *APPLIED CATALYSIS A-GENERAL*. 409, pp. 106 - 112. 12/2011 .ISSN 0926-860X
Type of production: Article **Type of platform:** Journal
- 19** F. Rubio-Marcos; P. Marchet; J. J. Romero; J. F. Fernandez. Structural, microstructural and electrical properties evolution of (K,Na,Li)(Nb,Ta,Sb)O-3 lead-free piezoceramics through NiO doping. *JOURNAL OF THE EUROPEAN CERAMIC SOCIETY*. 31 - 13, pp. 2309 - 2317. 11/2011 .ISSN 0955-2219
Type of production: Article **Type of platform:** Journal
- 20** Fernando Rubio-Marcos; Juan Jose Romero; Jose Francisco Fernandez; Pascal Marchet. Control of the Crystalline Structure and Piezoelectric Properties of (K,Na,Li)(Nb,Ta,Sb)O-3 Ceramics through Transition Metal Oxide Doping. *APPLIED PHYSICS EXPRESS*. 4 - 10, 10/2011 .ISSN 1882-0778
Type of production: Article **Type of platform:** Journal
- 21** Fernando Rubio-Marcos; Elizabeth Rojas; Ricardo Lopez-Medina; M. Olga Guerrero-Perez; Miguel A. Banares; Jose F. Fernandez. Tuning of Active Sites in Ni-Nb-O Catalysts for the Direct Conversion of Ethane to Acetonitrile or Ethylene. *CHEMCATCHEM*. 3 - 10, pp. 1637 - 1645. 10/2011 .ISSN 1867-3880
Type of production: Article **Type of platform:** Journal
- 22** P. Leret; M. A. de la Rubia; J. J. Romero; J. De Frutos; J. F. Fernandez. Phenomenological model of grain boundary behaviour under a bias field in Nb-doped CaCu₃Ti₄O₁₂ ceramics. *JOURNAL OF ALLOYS AND COMPOUNDS*. 509 - 41, pp. 9719 - 9723. 10/2011 .ISSN 0925-8388
Type of production: Article **Type of platform:** Journal
- 23** F. Rubio-Marcos; P. Marchet; J. -R. Duclere; J. J. Romero; J. F. Fernandez. Evolution of structural and electrical properties of (K, Na, Li)(Nb, Ta, Sb)O-3 lead-free piezoceramics through CoO doping. *SOLID STATE COMMUNICATIONS*. 151 - 20, pp. 1463 - 1466. 10/2011 .ISSN 0038-1098
Type of production: Article **Type of platform:** Journal
- 24** Fernando Rubio-Marcos; Pascal Marchet; Juan Jose Romero; Jose F. Fernandez. Correlation Between the Structure and the Piezoelectric Properties of Lead-Free (K,Na,Li)(Nb,Ta,Sb)O-3 Ceramics Studied by XRD and Raman Spectroscopy. *IEEE TRANSACTIONS ON ULTRASONICS FERROELECTRICS AND FREQUENCY CONTROL*. 58 - 9, pp. 1826 - 1834. 09/2011 .ISSN 0885-3010



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Type of platform: Journal

- 25** F. Rubio-Marcos; P. Marchet; X. Vendrell; J. J. Romero; F. Remondiere; L. Mestres; J. F. Fernandez. Effect of MnO doping on the structure, microstructure and electrical properties of the (K,Na,Li)(Nb,Ta,Sb)O-3 lead-free piezoceramics. JOURNAL OF ALLOYS AND COMPOUNDS. 509 - 35, pp. 8804 - 8811. 09/2011 .ISSN 0925-8388
Type of production: Article **Type of platform:** Journal
- 26** Julio F. Fernandez. Nonlinear and spin-glass susceptibilities of three site-diluted systems. PHYSICAL REVIEW B. 84 - 10, 09/2011 .ISSN 1098-0121
Type of production: Article **Type of platform:** Journal
- 27** Pilar Leret; Miguel A. de la Rubia; Fernando Rubio-Marcos; Juan Jose Romero; Jose Francisco Fernandez. Effect of Processing on the Sintering of High Dielectric constant CaCu₃Ti₄O₁₂ Ceramics. INTERNATIONAL JOURNAL OF APPLIED CERAMIC TECHNOLOGY. 8 - 5, pp. 1201 - 1207. 09/2011 .ISSN 1546-542X
Type of production: Article **Type of platform:** Journal
- 28** Jose S. Moya; Carlos Pecharroman; Isabel Montero; Raul Pina-Zapardiel; Antonio Esteban-Cubillo; Julian J. Reinoso; Jose F. Fernandez. Fabrication of Nanostructured Metallized Glazes by Conventional Fast-Firing Route. JOURNAL OF THE AMERICAN CERAMIC SOCIETY. 94 - 7, pp. 2067 - 2073. 07/2011 .ISSN 0002-7820
Type of production: Article **Type of platform:** Journal
- 29** Fernando Rubio-Marcos; Cristina V. Manzano; Julian J. Reinoso; Juan J. Romero; Pascal Marchet; Marisol S. Martin-Gonzalez; Jose F. Fernandez. Mechanism of Ni_{1-x}Zn_xO Formation by Thermal Treatments on NiO Nanoparticles Dispersed over ZnO. JOURNAL OF PHYSICAL CHEMISTRY C. 115 - 28, pp. 13577 - 13583. 07/2011 .ISSN 1932-7447
Type of production: Article **Type of platform:** Journal
- 30** M. Retuerto; J. Sanchez-Benitez; J. A. Alonso; F. Leardini; J. R. Ares; J. F. Fernandez; C. Sanchez. Deuteration properties of CaNi_{5-x}Cu_x system. JOURNAL OF POWER SOURCES. 196 - 9, SI, pp. 4342 - 4346. 05/2011 .ISSN 0378-7753
Type of production: Article **Type of platform:** Journal
- 31** F. Rubio-Marcos; M. A. Banares; J. J. Romero; J. F. Fernandez. Correlation between the piezoelectric properties and the structure of lead-free KNN-modified ceramics, studied by Raman Spectroscopy. JOURNAL OF RAMAN SPECTROSCOPY. 42 - 4, pp. 639 - 643. 04/2011 .ISSN 0377-0486
Type of production: Article **Type of platform:** Journal
- 32** I. Lorite; J. J. Romero; J. F. Fernandez. Factors affecting the electrostatic charge of ceramic powders. BOLETIN DE LA SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO. 50 - 2, pp. 73 - 78. 03/2011 .ISSN 0366-3175
Type of production: Article **Type of platform:** Journal
- 33** F. Rubio-Marcos; C. V. Manzano; J. J. Reinoso; I. Lorite; J. J. Romero; J. F. Fernandez; M. S. Martin-Gonzalez. Modification of optical properties in ZnO particles by surface deposition and anchoring of NiO nanoparticles. JOURNAL OF ALLOYS AND COMPOUNDS. 509 - 6, pp. 2891 - 2896. 02/2011 .ISSN 0925-8388
Type of production: Article **Type of platform:** Journal
- 34** F. Rubio-Marcos; J. J. Romero; M. S. Martin-Gonzalez; J. F. Fernandez. Effect of stoichiometry and milling processes in the synthesis and the piezoelectric properties of modified KNN nanoparticles by solid state reaction. JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. 30 - 13, pp. 2763 - 2771. 10/2010 .ISSN 0955-2219
Type of production: Article **Type of platform:** Journal



- 35** J. J. Reinosa; A. C. Silva; F. Rubio-Marcos; S. R. H. Mello-Castanho; J. S. Moya; J. F. Fernandez. High chemical stability of stoneware tiles containing waste metals. JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. 30 - 14, SI, pp. 2997 - 3004. 10/2010 .ISSN 0955-2219
Type of production: Article **Type of platform:** Journal
- 36** F. Rubio-Marcos; V. Calvino-Casilda; M. A. Banares; J. F. Fernandez. Novel hierarchical Co₃O₄/ZnO mixtures by dry nanodispersion and their catalytic application in the carbonylation of glycerol. JOURNAL OF CATALYSIS. 275 - 2, pp. 288 - 293. 10/2010 .ISSN 0021-9517
Type of production: Article **Type of platform:** Journal
- 37** F. Rubio-Marcos; J. J. Romero; J. F. Fernandez. Effect of the temperature on the synthesis of (K,Na)NbO₃-modified nanoparticles by a solid state reaction route. JOURNAL OF NANOPARTICLE RESEARCH. 12 - 7, pp. 2495 - 2502. 09/2010 .ISSN 1388-0764
Type of production: Article **Type of platform:** Journal
- 38** F. Rubio-Marcos; P. Marchet; T. Merle-Mejean; J. F. Fernandez. Role of sintering time, crystalline phases and symmetry in the piezoelectric properties of lead-free KNN-modified ceramics. MATERIALS CHEMISTRY AND PHYSICS. 123 - 1, pp. 91 - 97. 09/2010 .ISSN 0254-0584
Type of production: Article **Type of platform:** Journal
- 39** David Garcia-Lopez; Jose Francisco Fernandez; Juan Carlos Merino; Julio Santaren; Jose Maria Pastor. Effect of organic modification of sepiolite for PA 6 polymer/organoclay nanocomposites. COMPOSITES SCIENCE AND TECHNOLOGY. 70 - 10, pp. 1429 - 1436. 09/2010 .ISSN 0266-3538
Type of production: Article **Type of platform:** Journal
- 40** Julian J. Reinosa; Fernando Rubio-Marcos; Elena Solera; Miguel A. Bengochea; Jose F. Fernandez. Sintering behaviour of nanostructured glass-ceramic glazes. CERAMICS INTERNATIONAL. 36 - 6, pp. 1845 - 1850. 08/2010 .ISSN 0272-8842
Type of production: Article **Type of platform:** Journal
- 41** J. Chaboy; R. Boada; C. Piquer; M. A. Laguna-Marco; M. Garcia-Hernandez; N. Carmona; J. Llopis; M. L. Ruiz-Gonzalez; J. Gonzalez-Calbet; J. F. Fernandez; M. A. Garcia. Evidence of intrinsic magnetism in capped ZnO nanoparticles. PHYSICAL REVIEW B. 82 - 6, 08/2010 .ISSN 1098-0121
Type of production: Article **Type of platform:** Journal
- 42** Pilar Leret; Miguel Angel de la Rubia; Juan Jose Romero; Jose Francisco Fernandez. Relevance of the Percentage of Active Barriers in the Dielectric Response of CaCu₃Ti₄O₁₂ Ceramics. JOURNAL OF THE AMERICAN CERAMIC SOCIETY. 93 - 7, pp. 1866 - 1868. 07/2010 .ISSN 0002-7820
Type of production: Article **Type of platform:** Journal
- 43** M. S. Martin-Gonzalez; C. S. Steplecaru; F. Briones; E. Lopez-Ponce; J. F. Fernandez; M. A. Garcia; A. Quesada; C. Ballesteros; J. L. Costa-Kraemer. Microstructure, interdiffusion and magnetic properties of ZnO/MnOx multilayers grown by pulse laser deposition. THIN SOLID FILMS. 518 - 16, SI, pp. 4607 - 4611. 06/2010 .ISSN 0040-6090
Type of production: Article **Type of platform:** Journal
- 44** C. S. Steplecaru; M. S. Martin-Gonzalez; J. F. Fernandez; J. L. Costa-Kraemer. How to prevent twin formation in epitaxial ZnO thin films grown on c-plane sapphire. THIN SOLID FILMS. 518 - 16, SI, pp. 4630 - 4633. 06/2010 .ISSN 0040-6090
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- 45** M. G. Navarro-Rojero; J. J. Romero; F. Rubio-Marcos; J. F. Fernandez. Intermediate phases formation during the synthesis of $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ by solid state reaction. CERAMICS INTERNATIONAL. 36 - 4, pp. 1319 - 1325. 05/2010. ISSN 0272-8842
Type of production: Article **Type of platform:** Journal
- 46** J. Bodega; G. Garces; F. Leardini; J. R. Ares; J. F. Fernandez; P. Adeva; C. Sanchez. A new metastable crystalline phase in the Cr-Zr system. INTERMETALLICS. 18 - 5, pp. 1099 - 1101. 05/2010. ISSN 0966-9795
Type of production: Article **Type of platform:** Journal
- 47** J. J. Reinoso; F. Rubio-Marcos; M. A. Bengochea; J. F. Fernandez. Effect of fugitive phase addition on porosity evolution and properties of stoneware tiles. ADVANCES IN APPLIED CERAMICS. 109 - 4, pp. 219 - 224. 04/2010. ISSN 1743-6753
Type of production: Article **Type of platform:** Journal
- 48** J. F. Fernandez; F. Cuevas; F. Leardini; J. Bodega; J. R. Ares; G. Garces; P. Perez; C. Sanchez. A new pseudo-binary $\text{Mg}_6\text{Ni}_{0.5}\text{Pd}_{0.5}$ intermetallic compound stabilised by Pd for hydrogen storage. JOURNAL OF ALLOYS AND COMPOUNDS. 495 - 2, pp. 663 - 666. 04/2010. ISSN 0925-8388
Type of production: Article **Type of platform:** Journal
- 49** F. Rubio-Marcos; Juan J. Romero; Diego A. Ochoa; Jose E. Garcia; Rafael Perez; Jose F. Fernandez. Effects of Poling Process on KNN-Modified Piezoceramic Properties. JOURNAL OF THE AMERICAN CERAMIC SOCIETY. 93 - 2, pp. 318 - 321. 02/2010. ISSN 0002-7820
Type of production: Article **Type of platform:** Journal
- 50** J. J. Romero; P. Leret; F. Rubio-Marcos; A. Quesada; J. F. Fernandez. Evolution of the intergranular phase during sintering of $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramics. JOURNAL OF THE EUROPEAN CERAMIC SOCIETY. 30 - 3, pp. 737 - 742. 02/2010. ISSN 0955-2219
Type of production: Article **Type of platform:** Journal
- 51** M. A. Garcia; F. Jimenez-Villacorta; A. Quesada; J. de la Venta; N. Carmona; I. Lorite; J. Llopis; J. F. Fernandez. Surface magnetism in $\text{ZnO}/\text{Co}_3\text{O}_4$ mixtures. JOURNAL OF APPLIED PHYSICS. 107 - 4, 02/2010. ISSN 0021-8979
Type of production: Article **Type of platform:** Journal
- 52** Marisol S. Martin-Gonzalez; Miguel A. Garcia; Israel Lorite; Jose L. Costa-Kraemer; Fernando Rubio-Marcos; N. Carmona; Jose F. Fernandez. A Solid-State Electrochemical Reaction as the Origin of Magnetism at Oxide Nanoparticle Interfaces. JOURNAL OF THE ELECTROCHEMICAL SOCIETY. 157 - 3, pp. E31 - E35. 2010. ISSN 0013-4651
Type of production: Article **Type of platform:** Journal
- 53** AND FERNANDEZ JF AND DE FRUTOS J AND BUENO PR A RAMIREZ. Microstructural and Nonohmic Properties of $\text{ZnO}:\text{Pr}_6\text{O}_{11}$ CoO Polycrystalline System. Materials Research. 13, pp. 29 - 34. 2010.
Type of production: Article **Type of platform:** Journal
- 54** c AND CIOMAGA F AND OCHOA P AND FERNANDEZ JF AN STOLERIU. Mechanically clamped PZT ceramics investigated by First-order reversal curves diagram. Processing and Application of Ceramics. 4, pp. 209â##214 - 209â##214. 2010.
Type of production: Article **Type of platform:** Journal
- 55** P. Jaquotot; A. Campillo; V. Orta; J. J. Reinoso; J. J. Romero; J.F. Fernandez; M.A. Bengochea. Multifunctional Nanostructured Glazes by means of protected and dispersed nanoparticles. Qualicer 2010. Proceedings of the XI Forum on Ceramic Tile. Castellón 2010. Spain. Proceedings of the XI Forum on Ceramic Tile. Castellón 2010. Spain., 2010.



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Type of platform: Book

- 280** P. Duran; J. Tartaj; J.F. Fernandez Lozano; C. Moure; J. Colino. Preparation of Superconductor Y-Ba-Cu-O Powder by Single-Step Calcining in Air. Ceramic Transactions. 18, pp. 165 - 179. The American Ceramic Society, Westerville, OH, 1991., 1991.

Type of production: Chapters of books

Type of platform: Book

- 281** C. Moure; J.F. Fernandez Lozano; J. Tartaj; P. Duran. Properties of Ceramic YBaCuO Superconductor Processed by Intermediate Phase Reactions. Materials Science Monographs. 70, pp. 717 - 725. Materials Science Monographs, 70, High Temperature Superconductors. Ed. P. Vincenzini. Elsevier Science, Amsterdam, 1991., 1991.

Type of production: Chapters of books

Type of platform: Book

- 282** JF FERNANDEZ; P DURAN; C MOURE. DIELECTRIC AND PIEZOELECTRIC AGING OF PURE AND NB-DOPED BaTiO₃ CERAMICS. FERROELECTRICS. 106, pp. 381 - 386. 1990. ISSN 0015-0193

Type of production: Article

Type of platform: Journal

- 283** C MOURE; JF FERNANDEZ; P Recio; P Duran. A new route for synthesizing YBaCuO superconducting powders. Silicates Industriels. 55, pp. 127 - 131. 1990.

Type of production: Article

Type of platform: Journal

- 284** P Duran; JF FERNANDEZ; P Recio; F Capel; C MOURE. Processing and properties of large electromechanical anisotropic modified-lead titanate ceramics obtained from metalalkoxide. Silicates Industriels. 55, pp. 133 - 142. 1990.

Type of production: Article

Type of platform: Journal

- 285** P Duran; JF FERNANDEZ; P Recio; F Capel; C MOURE. Modificación del Coeficiente de Capacidad frente a la Temperatura en BaTiO₃. Materials and Manuf. Processes. 5, pp. 427 - 443. 1990.

Type of production: Article

Type of platform: Journal



- 286** P. Durán; C. Moure; J.F. Fdez Lozano; F. Capel. Large electromechanical anisotropic modified lead titanate ceramics. Part 2. Dielectric, piezoelectric and mechanical properties. *Journal of Materials Science*. 24 - 2, pp. 447 - 452. Springer, 1989.
Type of production: Article **Type of platform:** Journal
- 287** J.F. Fernandez Lozano; P. Duran; C. Moure. Sintering and Dielectric Properties of SiO₂-Doped BaTiO₃ Ceramics late precursors. *Euro-Ceramics* .2, pp. 2266 - 2272. Elsevier Applied Science, London-New York, 1989.
Type of production: Chapters of books **Type of platform:** Book
- 288** J.F. Fernandez Lozano; P. Duran; C. Moure. Barium Titanate Processing: Effect of Raw material Nature on Their Synthesis and Sintering Behaviour. *Euro-Ceramics* .1, pp. 172 - 176. Elsevier Applied Science, London-New York, 1989.
Type of production: Chapters of books **Type of platform:** Book
- 289** C. Moure; J.F. Fernandez Lozano; P. Recio; P. Duran. Densification of Y₁Ba₂Cu₃O_x Superconducting Ceramics. *Euro-Ceramics* .2, pp. 2415 - 2420. Elsevier Applied Science, London-New York, 1989.
Type of production: Chapters of books **Type of platform:** Book
- 290** P. Durán; C. Moure; J.F. Fdez Lozano; F. Capel. Large electromechanical anisotropic modified lead titanate ceramics. Part 1. Processing. *Journal of Materials Science*. 23 - 12, pp. 4463 - 4469. Springer, 1988.
Type of production: Article **Type of platform:** Journal
- 291** JF FERNANDEZ; C MOURE. Sinterización a Baja Temperatura y Desarrollo Microestructural de Materiales Cerámicos PZT Obtenidos a partir de Distintos Precursores. *BOLETIN DE LA SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO*. 27, pp. 17 - 23. 1988.
Type of production: Article **Type of platform:** Journal
- 292** JF FERNANDEZ; C MOURE. Caracterización Dielectrica y Piezoelectrica de Materiales Cerámicos del Tipo PZT Dopados con Niobio. *BOLETIN DE LA SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO*. 27, pp. 67 - 72. 1988.
Type of production: Article **Type of platform:** Journal
- 293** J.F. Fernandez Lozano; P. Duran; C. Moure. Low-sintering temperature of Nb-doped PZT obtained by using oxalate precursors. *Science of Ceramics*. 14, pp. 897 - 902. 1988.
Type of production: Chapters of books **Type of platform:** Book
- 294** A.C. Caballero; P. Duran; J.F. Fernandez; C. Moure. Effect of ZnO doping on sintering and dielectric properties of BaTiO₃. *Euro-Ceramics III*. 2, pp. 59 - 64. Eds. P. Duran, J.F. Fernandez, Faenza Editr. Iber. Castellón, Spain, 1993.
Type of production: Book **Type of platform:** Book

Work presented in conferences at the national or international level

- 1** **Title:** Factors affecting KNN-modified lead free piezoceramic properties
Name of the conference: 5th International Conference on Electroceramics ICE2011
Type of event: Conference **Field of the conference:** Non EU International
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: Sydney, Austria
Date of the event: 12/12/2011
Date of finalisation: 16/12/2011
 J. F. Fernández; J. J. Romero; P. Marchet; F. Rubio-Marcos .



- 2** **Title:** Confocal Raman Microscopy: A Powerful Three-Dimensional Characterization Technique for Electroceramics
Name of the conference: European Meeting on Ferroelectricity 2011 Workshop COST MP0904
Type of event: Conference **Field of the conference:** European Union
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: Bordeaux, France
Date of the event: 26/06/2011
Date of finalisation: 02/07/2011
J.J. Romero; A. del Campo; I. Lorite; P. Leret; F. Rubio-Marcos; J.J. Reinoso; J. F. Fernandez.
- 3** **Title:** Aspectos relacionados con la transferencia de conocimiento en materiales electroceramicos: Del laboratorio a la producción.
Name of the conference: X Reunión Nacional de Electrocerámica
Type of event: Conference **Field of the conference:** National
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: Madrid, Spain
Date of the event: 13/06/2011
Date of finalisation: 15/06/2011
Organising body: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO
External admission assessment committee: Yes
J. F. Fernández.
- 4** **Title:** Dry Dispersion processes for tuning properties in oxides
Name of the conference: 1st Japan-Spain International Workshop: Strategic Japanese.Spanish Cooperative Program Nanotherma
Type of event: Workshop **Field of the conference:** Non EU International
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: Madrid, Spain
Date of the event: 30/03/2011
Date of finalisation: 31/03/2011
J. F. Fernandez.
- 5** **Title:** Fuentes de oportunidades para sectores cerámicos tradicionales
Name of the conference: 50th Anniversary of the Spanish Ceramic and Glass Society
Type of event: Conference **Field of the conference:** National
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: Madrid, Spain
Date of the event: 27/10/2010
Date of finalisation: 29/10/2010
Organising body: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO
External admission assessment committee: Yes
J. F. Fernández.
- 6** **Title:** Unusual functional properties of Dry Dispersed Nano-oxides
Name of the conference: International Conference on Electroceramics (ICE-2009)
Type of event: Conference **Field of the conference:** Non EU International
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: New Dehli, India
Date of the event: 13/12/2009
Date of finalisation: 17/12/2009



J. F. Fernandez; I. Lorite; F. Rubio-Marcos; J.J. Romero; J.L. Costa-Kramer; M.S. Martín-Gonzalez; M.A. García; A. Quesada.

- 7** **Title:** Hierarchical structures and coatings from Dry Nanoparticles Dispersion
Name of the conference: The Sixth China International Conference on High-Performance Ceramics
Type of event: Conference **Field of the conference:** Non EU International
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: Harbin, China
Date of the event: 16/08/2009
Date of finalisation: 19/08/2009
J. F. Fernandez; I. Lorite; F. Rubio-Marcos; J.J. Romero; M.A. García; A. Quesada; J.L. Costa-Kramer; M.S. Martín-Gonzalez .
- 8** **Title:** Room temperature magnetism in oxides
Name of the conference: Electroceramics XI
Type of event: Conference **Field of the conference:** Non EU International
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: Manchester, United Kingdom
Date of the event: 31/08/2008
Date of finalisation: 04/09/2008
External admission assessment committee: Yes
M.A. García; A. Quesada; J. F. Fernández; M. L. Ruiz-Gonzalez; J. L. Costa-Kramer .
- 9** **Title:** Perspectivas en materiales Cerámicos
Name of the conference: Foro Tecnológico y Empresarial de la Industria Cerámica.
Type of event: Conference **Field of the conference:** National
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: Zaragoza, Spain
Date of the event: 26/04/2007
Date of finalisation: 26/04/2007
External admission assessment committee: Yes
J. F. Fernández.
- 10** **Title:** Varistor based on the ZnO-Bi₂O₃: Microstructure control and properties
Name of the conference: Electroceramics X
Type of event: Conference **Field of the conference:** European Union
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: Toledo, Spain
Date of the event: 18/06/2006
Date of finalisation: 22/06/2006
External admission assessment committee: Yes
A.C. Caballero; J. F. Fernández; M. Villegas; M. Peiteado; D. Fernandez-Hevia; M. A. de la Rubia; J. De Frutos.
- 11** **Title:** Room temperature ferromagnetism in diluted magnetic semiconductors
Name of the conference: Electroceramics X
Type of event: Conference **Field of the conference:** Non EU International
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: Toledo, Spain
Date of the event: 18/06/2006
Date of finalisation: 22/06/2006

**External admission assessment committee:** Yes

M.A. García; J. F. Fernández; J. L. Costa-Kramer; M. L. Ruiz-González; M.A. Bañares; A. Quesada; A.C. Caballero; M. S. Martín-González; E. López-Ponce; M. Villegas; F. Briones; J. M. González-Calbet; A. Hernando.

- 12** **Title:** Room temperature ferromagnetism in the Mn-Zn-O system: a new interphase magnetism
Name of the conference: International Symposium on Advanced Magnetic Technologies and International Symposium on Magnetic Materials and Applications ISAMT/SOMMA 2005
Type of event: Conference **Field of the conference:** Non EU International
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: Taiwan, Taiwan
Date of the event: 2005
Date of finalisation: 2005
External admission assessment committee: Yes
A. Hernando; M.A. García; J. L. Costa-Kramer; J. F. Fernández; M. L. Ruiz-González; F. Briones; J. M. González-Calbet .

- 13** **Title:** Processing of electroceramics through particle surface modification
Name of the conference: Functional Ceramics through advanced processing
Type of event: Conference **Field of the conference:** Non EU International
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: Madrid, Spain
Date of the event: 07/07/2003
Date of finalisation: 11/07/2003
External admission assessment committee: Yes
J. F. Fernández; M. Villegas; A.C. Caballero.

- 14** **Title:** Tamaños nanométricos en Materiales Electrocerámicos: Impacto en Iberoamérica
Name of the conference: Taller CYTED Iberoamericano en Nanomateriales
Type of event: Conference **Field of the conference:** Non EU International
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: Santiago, Chile
Date of the event: 26/03/2003
Date of finalisation: 26/03/2003
External admission assessment committee: Yes
J. F. Fernández; J. de Frutos.

- 15** **Title:** Processing of electroceramics through particle surface modification
Name of the conference: Electroceramics VIII
Type of event: Conference **Field of the conference:** Non EU International
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: Rome, Italy
Date of the event: 25/08/2002
Date of finalisation: 28/08/2002
External admission assessment committee: Yes
J. F. Fernández; M. Villegas; A.C. Caballero.

- 16** **Title:** Effect of particle surface modification on the sintering of electronic ceramics
Name of the conference: 10th International Ceramic Congress & 3rd Forum on New Materials. CIMTEC 2002
Type of event: Conference **Field of the conference:** Non EU International



Your role: Invited speaker

City of the publishing body: Florence, Italy

Date of the event: 14/07/2002

Date of finalisation: 18/07/2002

External admission assessment committee: Yes

J. F. Fernández; M. Villegas; A.C. Caballero.

Appearance as: By invitation

- 17** **Title:** Effect of donor doping on the sintering and electrical conductivity of Bi₄Ti₃O₁₂ ceramics
Name of the conference: 1st Brazil-MRS Meeting and 3rd Brazilian Symposium on Electroceramics
Type of event: Conference
Your role: Invited speaker
City of the publishing body: Rio Janeiro, Brazil
Date of the event: 07/07/2002
Date of finalisation: 10/07/2002
External admission assessment committee: Yes
M. Villegas; G. Farías; J. F. Fernández; A.C. Caballero.

Field of the conference: National

Appearance as: By invitation

- 18** **Title:** Microstructure control on ferroelectric ceramics through processing
Name of the conference: 1st Brazil-MRS Meeting and 3rd Brazilian Symposium on Electroceramics
Type of event: Conference
Your role: Invited speaker
City of the publishing body: Rio Janeiro, Brazil
Date of the event: 07/07/2002
Date of finalisation: 10/07/2002
External admission assessment committee: Yes
A.C. Caballero; J. F. Fernández; M. Villegas.

Field of the conference: National

Appearance as: By invitation

- 19** **Title:** Efecto del procesamiento sobre la sinterización y propiedades de cerámicas piezoeléctricas
Name of the conference: Reunión Iberoamericana de Materiales Ferroeléctricos
Type of event: Conference
Your role: Invited speaker
City of the publishing body: La Habana, Cuba
Date of the event: 24/06/2002
Date of finalisation: 27/06/2002
External admission assessment committee: Yes
J. F. Fernández; M. Villegas; T. Jardiel; A.C. Caballero.

Field of the conference: Non EU International

Appearance as: By invitation

- 20** **Title:** Modulation of electrical conductivity through microstructural control in Bi₄Ti₃O₁₂ based piezoelectric ceramics
Name of the conference: 10th International Meeting on Ferroelectricity
Type of event: Conference
Your role: Invited speaker
City of the publishing body: Madrid, Spain
Date of the event: 03/09/2001
Date of finalisation: 07/09/2001
External admission assessment committee: Yes
M. Villegas; J. F. Fernández; A.C. Caballero.

Field of the conference: Non EU International

Appearance as: By invitation

- 21** **Title:** Elementos sensores piezocomposites para su integración en pieles artificiales
Name of the conference: XL Congreso Nacional de La Sociedad de Cerámica y Vidrio
Type of event: Conference

Field of the conference: National



Your role: Invited speaker

Appearance as: By invitation

City of the publishing body: Onda, Spain

Date of the event: 08/11/2000

Date of finalisation: 20/11/2000

Organising body: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO

External admission assessment committee: Yes

P. Ochoa; M. Villegas; J. F. Fernández.

22 Title: Role of heterogeneities in Ferroelectric ceramics

Name of the conference: 44º Congreso Brasileiro de Cerâmica II Simpósio Brasileiro e Cerâmica Eletro-Eletrônica.

Type of event: Conference

Field of the conference: National

Your role: Invited speaker

Appearance as: By invitation

City of the publishing body: Sao Pedro, Brazil

Date of the event: 31/05/2000

Date of finalisation: 04/06/2000

External admission assessment committee: Yes

J. F. Fernández; M. Villegas; A.C. Caballero.

23 Title: Propiedades y Aplicaciones de piezocomposites tipo címbalo

Name of the conference: III Reunión Iberoamericana Materiales Electrocerámicos

Type of event: Conference

Field of the conference: Non EU International

Your role: Invited speaker

Appearance as: By invitation

City of the publishing body: México DF, Mexico

Date of the event: 02/05/2000

Date of finalisation: 05/05/2000

External admission assessment committee: Yes

J. F. Fernández; P. Ochoa; M. Villegas.

24 Title: Transductores en el Rango de Ultrasonidos: Aplicaciones Médicas

Name of the conference: VI Encuentro de Física de Radiaciones y Materiales.

Type of event: Conference

Field of the conference: National

Your role: Invited speaker

Appearance as: By invitation

City of the publishing body: Quito, Ecuador

Date of the event: 09/11/1999

Date of finalisation: 12/11/1999

External admission assessment committee: Yes

M. Villegas; J. F. Fernández; A.C. Caballero.

25 Title: Piezoeléctricos de Alta Temperatura: Presente y Futuro

Name of the conference: VI Encuentro de Física de Radiaciones y Materiales.

Type of event: Conference

Field of the conference: National

Your role: Invited speaker

Appearance as: By invitation

City of the publishing body: Quito, Ecuador

Date of the event: 09/11/1999

Date of finalisation: 12/11/1999

External admission assessment committee: Yes

M. Villegas; L. Lascano; J. F. Fernández; A.C. Caballero.



- 26** **Title:** Oportunidades en cerámica para electrónica
Name of the conference: XXXIX Congreso Nacional de La Sociedad de Cerámica y Vidrio
Type of event: Conference **Field of the conference:** National
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: Jaca, Spain
Date of the event: 17/10/1999
Date of finalisation: 20/10/1999
Organising body: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO
External admission assessment committee: Yes
L. Lascano; A.C. Caballero; M. Villegas; C. Moure; P. Durán; J. F. Fernández.
- 27** **Title:** Microstructural Control of Electroceramics Materials applications
Name of the conference: International Materials Research Congress.
Type of event: Conference **Field of the conference:** Non EU International
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: Cancún, Mexico
Date of the event: 29/08/1999
Date of finalisation: 02/09/1999
External admission assessment committee: Yes
J. F. Fernández; A.C. Caballero; M. Villegas; P. Durán; C. Moure.
- 28** **Title:** Bi₄Ti₃O₁₂-based piezoelectric ceramics for high temperature applications
Name of the conference: NATO Advanced Research Workshop "Piezoelectric Materials: Advances in Science, Technology and Applications
Type of event: Conference **Field of the conference:** European Union
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: Predeal, Rumanía
Date of the event: 24/05/1999
Date of finalisation: 07/05/1999
External admission assessment committee: Yes
M. Villegas; A.C. Caballero; C. Moure; J. F. Fernández; P. Durán.
- 29** **Title:** Renversement de spin par cyclage de temperature et du champ dans les perovskites ferromagnetiques (Ca,Gd)MnO₃
Name of the conference: Les oxydes a proprietes remarquables : ordre de spins, ordre de charge et phenomenes cooperatifs", Laboratoire de Physique des Solides d'Orsay
Type of event: Conference **Field of the conference:** National
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: Orsay, France
Date of the event: 24/03/1999
Date of finalisation: 26/03/1999
Organising body: Laboratoire de Physique des Solides d'Orsay **Type of body:** State agency
External admission assessment committee: Yes
O. Peña; C. Moure; J. F. Fernández; M. Villegas; P. Durán.
- 30** **Title:** Seeding: a method for micro and nanostructural control of electroceramic
Name of the conference: International Materials Research Congress. Cancún-98
Type of event: Conference **Field of the conference:** Non EU International
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: Cancún, Mexico



Date of the event: 1998
Date of finalisation: 1998
External admission assessment committee: Yes
J. Tartaj; C. Moure; J. F. Fernández; P. Durán.

31 **Title:** Oportunidades en cerámica para electrónica
Name of the conference: V Encuentro de Física de Radiaciones y Materiales
Type of event: Conference **Field of the conference:** National
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: Quito, Ecuador
Date of the event: 11/11/1997
Date of finalisation: 13/11/1997
External admission assessment committee: Yes
J. F. Fernández; M. Villegas; A.C. Caballero; J. Tartaj; M.T. Colomer; J.E. Rodríguez-Páez; F. Capel; C. Moure; P. Durán.

32 **Title:** Moonies, Cymbals and BBs
Name of the conference: IEEE Fall Meeting
Type of event: Conference **Field of the conference:** Non EU International
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: Seattle, United States of America
Date of the event: 11/1995
Date of finalisation: 11/1995
External admission assessment committee: Yes
J. F. Tressler; A. Dogan; J. F. Fernández; J. T. Fielding; K. Uchino; R.E. Newnham.

33 **Title:** Piezoelectric Composites with Open Spaces
Name of the conference: IV European Ceramic Society Conference.
Type of event: Conference **Field of the conference:** Non EU International
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: Riccione, Italy
Date of the event: 02/10/1995
Date of finalisation: 06/10/1995
External admission assessment committee: Yes
J. F. Fernández; A. Dogan; R.E. Newnham.

34 **Title:** The Moonie and Cymbals Transducers
Name of the conference: 13th Smart Actuator Symposium Annual Meeting.
Type of event: Conference **Field of the conference:** Non EU International
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: State College, PA, United States of America
Date of the event: 18/04/1995
Date of finalisation: 19/04/1995
External admission assessment committee: Yes
A. Dogan; J. F. Fernández; K. Uchino; R.E. Newnham.

35 **Title:** Moonies, Cymbals and BBs
Name of the conference: ONR Transducer Materials and Transducer Workshop.
Type of event: Conference **Field of the conference:** Non EU International
Your role: Invited speaker **Appearance as:** By invitation
City of the publishing body: State College, PA, United States of America



Date of the event: 04/04/1995

Date of finalisation: 06/04/1995

External admission assessment committee: Yes

R.E. Newnham; A. Dogan; J. T. Fielding; J. F. Fernández; D. Smith; J. F. Tressler; J. Wallis; K. Uchino; W. Zhu.

36 Title: Composite Piezoelectric Sensors and Actuators.

Name of the conference: Material for Smart Systems. Material Research Society Fall Meeting.

Type of event: Conference

Field of the conference: Non EU International

Your role: Invited speaker

Appearance as: By invitation

City of the publishing body: Boston MA, United States of America

Date of the event: 28/11/1994

Date of finalisation: 30/11/1994

External admission assessment committee: Yes

R.E. Newnham; J. F. Fernández; K. A. Markowski; J. T. Fielding; A. Dogan; J. Wallis.

37 Title: Processing of porous and dense PZT thick films on Al₂O₃ substrates

Organising body: {IEEE; Ultrason Ferroelect & Frequency Control Soc}

Type: Book

JF FERNANDEZ; E NIETO; C MOURE; P DURAN."ISAF '94 - PROCEEDINGS OF THE NINTH IEEE INTERNATIONAL SYMPOSIUM ON APPLICATIONS OF FERROELECTRICS".pp. 49 - 52.1994.ISBN 0-7803-1858-7

38 Title: Theoretically dense and nanostructured ceramics by low-temperature pressureless sintering of nanosized Y-TZP powders

Organising body: {Amer Ceram Soc; Ceram Soc Japan; European Ceram Soc}

Type: Book

P Duran; M Villegas; JF Fernandez; F Capel; C Moure."CERAMIC PROCESSING SCIENCE".83, pp. 43 - 43.1998.ISSN 1042-1122, ISBN 1-57498-056-4

39 Title: Enhanced crystallisation kinetics of air-calcined yttrium doped hydrous zirconia by seeding

Organising body: {Amer Ceram Soc; Ceram Soc Japan; European Ceram Soc}

Type: Book

J Tartaj; P Duran; JF Fernandez; C Moure."CERAMIC PROCESSING SCIENCE".83, pp. 45 - 52.1998.ISSN 1042-1122, ISBN 1-57498-056-4

40 Title: Synthesis of nanoparticle ZnO powders by controlled precipitation

Organising body: {Amer Ceram Soc; Ceram Soc Japan; European Ceram Soc}

Type: Book

JE Rodriguez-Paez; AC Caballero; M Ocana; C Moure; P Duran; JF Fernandez."CERAMIC PROCESSING SCIENCE".83, pp. 19 - 26.1998.ISSN 1042-1122, ISBN 1-57498-056-4

41 Title: Bi₂Ti₃O₁₂-based piezoelectric ceramics for high temperature applications

Organising body: {NATO}

Type: Book

M Villegas; AC Caballero; C Moure; JF Fernandez; P Duran."PIEZOELECTRIC MATERIALS: ADVANCES IN SCIENCE, TECHNOLOGY AND APPLICATIONS".76, pp. 67 - 74.2000.ISBN 0-7923-6212-8

42 Title: Crystalline structure and electrical properties of solid solutions YCo_xMn_{1-x}O₃

Organising body: {European Ceram Soc; Belgian Ceram Soc}

Type: Book



D Gutierrez; O Pena; JF Fernandez; C Moure."EURO CERAMICS VII, PT 1-3 ".206-2 , pp. 1393 - 1396.2002.ISSN 1013-9826, ISBN 0-87849-882-6

Other publishing activities.

- 1** **Title or object:** "Los retos del futuro en la educación y el empleo"
Name of the event: Mesa redonda "Preparando Futuros Líderes"
Type of event: Conferences given
City of the publishing body: Madrid, Spain
Date of the event: 12/06/2012
Organising body: Organizado por Red Fundaciones Universidad Empresa
J.F. Fernandez.
- 2** **Title or object:** Ciencia y Tecnología de Materiales cerámicos
Name of the event: Conferencia divulgativa:
Type of event: Conferences given
City of the publishing body: Madrid, Spain
Date of the event: 29/02/2012
Organising body: I.E.S. La Paloma, Madrid
J.F. Fernandez.
- 3** **Title or object:** La crisis se lleva por delante la I+D en las azulejeras y amenaza el futuro del sector"
Name of the event: Periódico Mediterráneo
Type of event: Media interviews
City of the publishing body: Spain
Date of the event: 30/11/2011
Organising body: Periódico Cinco Días, suplemento Economía&Empresa
J.F. Fernandez.
- 4** **Title or object:** WORKSHOP TECNOCAI 2011 Tecnologías Eficientes e inteligentes orientadas a la salud y al confort en ambientes Interiores".
Name of the event: WORKSHOP TECNOCAI 2011
Type of event: Conferences given
City of the publishing body: Madrid, Spain
Date of the event: 29/11/2011
Organising body: Co-Organiza ACCIONA e ICV-CSIC
J.F. Fernandez.
- 5** **Title or object:** Proyecto INNPACTO CEMESFERAS
Name of the event: Periódico Cinco Días, suplemento Economía&Empresa
Type of event: Noticia
City of the publishing body: Spain
Date of the event: 24/02/2011
Organising body: Periódico Cinco Días, suplemento Economía&Empresa
J.F. Fernandez.
- 6** **Title or object:** Noticia en Rne. Inventos del CSIC en la Semana de la Ciencia: "Azulejos funcionales nanoestructurados"
Name of the event: "Días como hoy"
Type of event: Media interviews



City of the publishing body: Spain
Date of the event: 18/12/2010
Organising body: ENTE PUBLICO RADIO TELEVISION ESPAÑOLA, S.A.
J.F. Fernandez.

7 **Title or object:** WORKSHOP DOMINO 2010
Name of the event: WORKSHOP DOMINO 2010
Type of event: Conferences given
City of the publishing body: Madrid, Spain
Date of the event: 26/10/2010
Organising body: Organiza TOLSA SA en colaboración con ICV-CSIC
J.F. Fernandez.

8 **Title or object:** Empleo de Espectroscopía Confocal Raman/AFM a problemas de nanopartículas y Materiales Cerámicos.
Name of the event: Introduction to Confocal Raman and Scanning Probe Microscopy
Type of event: Conferences given
City of the publishing body: Madrid, Spain
Date of the event: 24/10/2010
Organising body: Organiza ICV-CSIC en colaboración con WITEC e IZASA SA
J.F. Fernandez; A. del Campo; I. Lorite; J. Jiménez; F. Rubio-Marcos; J. J. Romero.

9 **Title or object:** Empleo de Espectroscopía Confocal Raman/AFM a problemas de nanopartículas y Materiales Cerámicos.
Name of the event: Introduction to Confocal Raman and Scanning Probe Microscopy
Type of event: Conferences given
City of the publishing body: Madrid, Spain
Date of the event: 23/10/2010
Organising body: Instituto de Cerámica y Vidrio
Type of body: State agency
J.F. Fernandez.

10 **Title or object:** Del laboratorio a la producción: ejemplo de incorporación de nanotecnología en azulejos cerámicos funcionales
Name of the event: Ciclo Conferencias Inventos del CSIC. Semana de la ciencia
Type of event: Conferences given
City of the publishing body: Madrid, Spain
Date of the event: 18/10/2010
Organising body: Consejo Superior de Investigaciones Científicas
Type of body: State agency
J.F. Fernandez.

11 **Title or object:** La cerámica: De la tradición a la Nanotecnología
Name of the event: Ciclo Conferencias ASARCO
Type of event: Conferences given
City of the publishing body: Colmenar Viejo (Madrid), Spain
Date of the event: 09/05/2009
J.F. Fernandez.



Experiences transferred

Experience organising R&D activities

- 1** **Title:** Advanced Electroceramic: Grain Boundary Engineering. Kick-Off Workshop
Convening body: European Commission COST ICC2-CT-2000-02066
Start date: 09/2000 , 1 year
Date of finalisation: 08/2001
- 2** **Title:** X Electroceramics 2006. International Conference on Electroceramics and their applications
Convening body: MAT2006-26542-E
Start date: 2006
- 3** **Title:** X Electroceramics 2006. Internacional Conference on Electroceramics
Convening body: Consejo Superior de Investigaciones Científicas
Type of body: State agency
Start date: 2006
- 4** **Title:** VI Reunión Nacional de Materiales. Número Monográfico BSECV
Convening body: CICYT (MAT2000-2130-E)
Start date: 2000
- 5** **Title:** V Reunión Nacional de Materiales. Número Monográfico BSECV
Convening body: CICYT (MAT97-1675-E)
Start date: 1997

Experience in assessment and review of R&D&I projects and articles

- 1** **Name of the activity:** Expert of the CEE. Member of the Management Committee COST MP0904 Action Programmes
Responsibility held: EVALUADOR PROYECTOS
Organising body: Committee COST MP0904 Action Programmes
Type of activity: Participation in panels
Area : European Union
Start date: 2010, 2014
- 2** **Name of the activity:** Evaluador proyectos UEFISCDI (Executive Agency for Higher Education, Research, Development and Innovation Funding) National Research Council, Romania
Responsibility held: EVALUADOR PROYECTOS
Organising body: National Research Council, Romania
Type of activity: Participation in panels
Area : European Union
Start date: 2012, 2012
- 3** **Name of the activity:** Evaluator of Fond de la Recherche Scientifique, FNRS Belgium
Responsibility held: EVALUADOR PROYECTOS
Organising body: FNRS Belgium
Type of activity: Participation in panels

Area : European Union
Start date: 2010, 2012

- 4** **Name of the activity:** Experto Auditor AIDIT (Agencia de Acreditación en Investigación Desarrollo e Innovación Tecnológica) de UPM-UPB
Responsibility held: EVALUADOR PROYECTOS
Organising body: (Agencia de Acreditación en Investigación Desarrollo e Innovación Tecnológica)
Type of activity: Participation in panels
Area : National
Start date: 2005, 2012
- 5** **Name of the activity:** Evaluador proyectos Slovenian Research Agency
Responsibility held: EVALUADOR PROYECTOS
Organising body: Slovenian Research Agency
Type of activity: Participation in panels
Area : European Union
Start date: 2011, 2011
- 6** **Name of the activity:** Evaluador ERA.Net RUS Pilot Joint Call of Collaborative Science and Technology Project. EU.
Responsibility held: EVALUADOR PROYECTOS
Organising body: European Union
Type of activity: Participation in panels
Area : European Union
Start date: 2011, 2011
- 7** **Name of the activity:** Evaluador ANEP (Agencia Nacional de Evaluación y Prospectiva)
Responsibility held: EVALUADOR PROYECTOS
Organising body: Agencia Nacional de Evaluación y Prospectiva)
Type of activity: Participation in panels
Area : National
Start date: 1996, 2011
- 8** **Name of the activity:** Evaluador Programa CYTED
Responsibility held: EVALUADOR PROYECTOS
Organising body: CYTED
Type of activity: Participation in panels
Area : National
Start date: 2004, 2010
- 9** **Name of the activity:** Evaluador Programa CYTED
Responsibility held: EVALUADOR PROYECTOS
Organising body: CYTED
Type of activity: Participation in panels
Area : National
Start date: 2004, 2010
- 10** **Name of the activity:** Editor jefe
Responsibility held: EDITOR Bol. Soc. Esp. Ceram. V. (revista indexada en SCI)
Organising body: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO
Type of activity: Participation in editorial committees



Area : European Union
Start date: 2005, 2008

- 11 Name of the activity:** Evaluador proyectos Portuguese Science and Technology Foundation.
Responsibility held: EVALUADOR PROYECTOS
Organising body: Portuguese Science and Technology Foundation
Type of activity: Participation in panels
Area : European Union
Start date: 2007, 2007
- 12 Name of the activity:** Reviewer ISTC (International Science and Technology Center) for the European Union
Responsibility held: EVALUADOR PROYECTOS
Organising body: European Union
Type of activity: Participation in panels
Area : Non EU International
Start date: 2004, 2006
- 13 Name of the activity:** Evaluador proyectos INTAS de la CEE
Responsibility held: EVALUADOR PROYECTOS
Organising body: proyectos INTAS de la CEE
Type of activity: Participation in panels
Area : National
Start date: 2000, 2006
- 14 Name of the activity:** Grain Boundary Engineering Ceramic Expert of the CEE. Member of the Management Committee COST 525 Action Programmes Grain Boundary Engineering Ceramic Expert of the CEE. Member of the Management Committee COST 525 Action Programmes
Responsibility held: EVALUADOR PROYECTOS
Organising body: Committee COST 525 Action Programmes
Type of activity: Participation in panels
Area : European Union
Start date: 1999, 2005
- 15 Name of the activity:** Membership of Expert Evaluator Panel for NMP-1, European Commission
Responsibility held: EVALUADOR PROYECTOS
Organising body: European Commission
Type of activity: Participation in panels
Area : European Union
Start date: 2003, 2003
- 16 Name of the activity:** Evaluador proyectos CAM
Responsibility held: EVALUADOR PROYECTOS
Organising body: Comunidad de Madrid **Type of body:** Autonómico
Type of activity: Participation in panels
Area : Regional
Start date: 1998, 2001
- 17 Responsibility held:** Redactor colaborador de la Revista Boletín de la Sociedad Española de Cerámica y Vidrio
Organising body: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO



Type of activity: Participation in editorial committees
Area : European Union
Start date: 1992, 1998

18 Name of the activity: Ferroelectric Ceramic Expert of the CEE. COST503 Action Programmes
Responsibility held: EVALUADOR PROYECTOS
Organising body: COST503 Action Programmes
Type of activity: Participation in panels
Area : European Union
Start date: 1993, 1996

19 Name of the activity: Ferroelectric Ceramic Expert of the CEE. ALFA Program
Responsibility held: EVALUADOR PROYECTOS
Organising body: ALFA Program
Type of activity: Participation in panels
Area : Non EU International
Start date: 1995, 1995

20 Name of the activity: Peer Referee of the National Science Foundation (USA)
Responsibility held: Peer Referee
Organising body: National Science Foundation (USA) **Type of body:** State agency
Type of activity: Participation in panels
Area : Non EU International
Start date: 1994, 1994

21 Name of the activity: Evaluador ANEP programa RyC y JdC
Responsibility held: EVALUADOR PROYECTOS
Organising body: ANEP programa RyC y JdC
Type of activity: Participation in panels
Area : National
Start date: 2011

22 Name of the activity: Evaluador proyectos ACSUYL (Agencia para la Calidad del Sistema Universitario de Castilla y León).
Responsibility held: EVALUADOR PROYECTOS
Organising body: Agencia para la Calidad del Sistema Universitario de Castilla y León
Type of activity: Participation in panels
Area : National
Start date: 2008

23 Responsibility held: Co-Editor "Refereed Reports Electroceramic X 2006" J. Eur. Ceram . Soc. Elsevier ISSN 0955-2219.
Organising body: European Ceramic Society
Type of activity: Participation in editorial committees
Area : European Union
Start date: 2007

24 Name of the activity: Evaluador proyectos CONCYTEC, Peru.
Responsibility held: EVALUADOR PROYECTOS
Organising body: CONCYTEC



City: Peru

Type of activity: Participation in panels

Area : Non EU International

Start date: 2004

- 25 Responsibility held:** Co-editor "Introducción a la Electrocerámica"
Organising body: Fundación Rogelio Segovia para el Desarrollo de las Telecomunicaciones, Madrid ISBN 84-7402-305-XO
Type of activity: Participation in editorial committees
Area : European Union
Start date: 2003
- 26 Responsibility held:** Co-editor de la Publicación "VI Reunión Nacional de Materiales" editada por la SECV, ISSN-0366-3175-BSCVB9 Vol 39 Nº 3 y 4
Organising body: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO
Type of activity: Participation in editorial committees
Area : European Union
Start date: 2000
- 27 Responsibility held:** Editor de la Publicación "III Reunión Nacional de Electrocerámica" editada por la SECV, ISSN-0366-3175-BSCVB9 Vol 37 Nº 2 y 3
Organising body: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO
Type of activity: Participation in editorial committees
Area : European Union
Start date: 1998
- 28 Responsibility held:** Co-Editor de la Publicación " Electrocerámica IV Reunión Nacional y II Conferencia Iberoamericana" editada por la SECV, ISSN-0366-3175-BSCVB9 Vol 38 Nº 5 y 6.
Organising body: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO
Type of activity: Participation in editorial committees
Area : European Union
Start date: 1998
- 29 Responsibility held:** Co-editor de la Publicación "V Reunión Nacional de Materiales" editada por la SECV, ISSN-0366-3175-BSCVB9 Vol 36 Nº 2 y 3.
Organising body: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO
Type of activity: Participation in editorial committees
Area : European Union
Start date: 1997
- 30 Responsibility held:** Co-editor de la Publicación "Electrocerámica II" editada por la SECV, ISSN-0366-3175-BSCVB9 Vol 34 Nº 5 y 6,
Organising body: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO
Type of activity: Participation in editorial committees
Area : European Union
Start date: 1995
- 31 Responsibility held:** Co-editor de "EUROCERAMIC III" Vol 1, 2 and 3. Faenza Editrice Iberica SL, Madrid 1993. Obra completa: ISBN-84-87683-04-05; Volumen 1 ISBN 84-87683-05-3, Volumen 2 ISBN 84-87683-06-1 y Volumen 3 ISBN 84-87683-07-X
Organising body: European Ceramic Society
Type of activity: Participation in editorial committees



Area : European Union

Start date: 1993

- 32** **Responsibility held:** Coeditor de la Publicación "Electrocerámica I" editada por la SECV, ISSN-0366-3176-BSCVB9 Vol 30 Nº 5 y 6,
Organising body: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO
Type of activity: Participation in editorial committees
Area : European Union
Start date: 1991

Other credits

Residencies in R&D&I centres or companies in your own country or abroad

- 1** **Body where project took place:** Intercollege Materials Research Laboratory, Penn State University
City: University Park, United States of America
Start date: 1994, 1 year
Date of finalisation: 1995
Aim of the residency: Guest
Provable tasks: Design and Characterization of a New Family of Metal-Ceramic Piezoelectric Materials with Extremely High Properties
- 2** **Body where project took place:** Area de Componentes y Tecnología. TELETTRA ESPAÑA S.A.
City: MADRID, Spain
Start date: 01/12/1991 , 2 months
Date of finalisation: 31/01/1992
Aim of the residency: Guest
Provable tasks: Desarrollo de tecnologías Thick Film y Green Tape (materiales cerámicos multicapa)
- 3** **Body where project took place:** Instituto de Materiales-Centro de Instrumentación. Universidad Nacional Autónoma de México.
City: Mexico DF, Mexico
Start date: 2000, 10 days
Aim of the residency: Guest
Provable tasks: III Jornadas de Actualización en Materiales Electroceramicos.
- 4** **Body where project took place:** Universidade Estadual Paulista.
City: Araraquara, Brazil
Start date: 2000, 7 days
Aim of the residency: Guest
Provable tasks: Proyecto conjunto "Influencia del semillado en la preparacion de láminas delgadas ferroeléctricas.
- 5** **Body where project took place:** Instituto de Materiales-Centro de Instrumentación. Universidad Nacional Autónoma de México.
City: Mexico DF, Mexico
Start date: 1999, 7 days
Aim of the residency: Guest
Provable tasks: Vibrational response of asymmetric piezocomposites.



- 6** **Body where project took place:** Queen Mary and Westfield College, University of London.
City: London, United Kingdom
Start date: 1998, 7 days
Aim of the residency: Guest
Provable tasks: Mechanical behaviour of PZT fine grained ceramics.
- 7** **Body where project took place:** Universidad Federal de San Carlos
City: Sao Carlos, Brazil
Start date: 1998, 10 days
Aim of the residency: Guest
Provable tasks: 1ª Jornadas Red Iberoamericana de Materiales Electroceramicos.
- 8** **Body where project took place:** Intercollege Material Research Laboratory, The Pennsylvania State University.
City: University Park, United States of America
Start date: 1998, 7 days
Aim of the residency: Guest
Provable tasks: Size effect on Cymbal piezocomposites
- 9** **Body where project took place:** Instituto di Chimica Fisica Applicata dei Materiali, Consiglio Nazionale delle Ricerche.
City: Genova, Italy
Start date: 1997, 15 days
Aim of the residency: Guest
Provable tasks: SEM analysis of BaTiO₃ ceramics processed by LTAS method.
- 10** **Body where project took place:** Escuela Politecnica Nacional
City: Quito, Ecuador
Start date: 1997, 7 days
Aim of the residency: Guest
Provable tasks: Procesamiento de sensores de bajo coste.
- 11** **Body where project took place:** Jozef Stefan Institute
City: Ljubljana, Slovenia
Start date: 1996, 7 days
Aim of the residency: Guest
Provable tasks: TEM studies on Fine Grained PZT Ceramics
- 12** **Body where project took place:** Centre de Recherche Sur la Physique des Hautes Temperatures, CNRS.
City: Orleans, France
Start date: 1996, 7 days
Aim of the residency: Guest
Provable tasks: High Temperature RMN of BaTiO₃ ceramics.
- 13** **Body where project took place:** Universidad Autónoma de Madrid **Type of body:** University
Department, institute, centre: Departamento de Ciencia de Materiales
Start date: 1994, 6 months
Aim of the residency: Guest
Provable tasks: Determinación de puntos tricríticos en sistemas mixtos.



- 14** **Body where project took place:** Instituto de Ciencia **Type of body:** University Research Institute de Materiales de Aragón
Department, institute, centre: Departamento de Materiales
City: ZARAGOZA, Spain
Start date: 1993
Aim of the residency: Guest
Provable tasks: Optimización del crecimiento de fibras monocristalinas ferroléctricas mediante laser en zona flotante.
- 15** **Body where project took place:** Ecole Polytechnique Federal de Lausanne
City: Lausanne, Switzerland
Start date: 1992, 7 days
Aim of the residency: Guest
Provable tasks: Piezoelectric Materials Under Severe Conditions
- 16** **Body where project took place:** Instituto de Ciencia **Type of body:** State agency y Tecnología de Polímeros
Department, institute, centre: Unidad de Tecnología de Plásticos
City: Madrid, Spain
Start date: 1991, 1 year
Aim of the residency: Guest
Provable tasks: Desarrollo y Transferencia de Sistemas de Caracterización Eléctrica en amplio rango de temperaturas (77-500K) de materiales poliméricos.
- 17** **Body where project took place:** Universidad **Type of body:** University Autónoma de Madrid
Department, institute, centre: Dpto Física de la Materia Condensada
City: Madrid, Spain
Start date: 1988, 1 year
Aim of the residency: Guest
Provable tasks: Determinación de Superconductividad en materiales cerámicos YBa₂Cu₃O_x
- 18** **Body where project took place:** Centre de Recherches Aubervilliers
City: Paris, France
Start date: 1988, 7 days
Aim of the residency: Guest
Provable tasks: Determination granulometrique et reologique des echantillons de BaTiO₃
- 19** **Body where project took place:** Massachusetts Institute of Technology
City: Boston, United States of America
Start date: 1987, 7 days
Aim of the residency: Guest
Provable tasks: Electro-ceramics: processing and applications



Membership of thematic networks after selection processes

- 1** **Name:** Member International Advisory Committee of Electroceramic 2012, 24-27 June 2012 Enschede, Netherland.
Start date: 2012
- 2** **Name:** Miembro Scientific Committee Electroceramica X Reunión Nacional, 13-15 Junio 2011 Madrid
Start date: 2011
- 3** **Name:** Miembro International Advisory Committee of International Conference on Electroceramic 2011, 12-16 December 2011 Sydney, Australia.
Start date: 2011
- 4** **Name:** Miembro Comité Científico L Congreso Anual de la Sociedad Española de Cerámica y Vidrio, Madrid 27-30 Octubre 2010
Start date: 2010
- 5** **Name:** Miembro Scientific Committee Electroceramica IX Reunión Nacional, 28-30 Junio 2009 Leganes.
Start date: 2009
- 6** **Name:** Miembro International Advisory Committee of International Conference on Electroceramic 2009, 10-17 December 2009 New Dheli, India.
Start date: 2009
- 7** **Name:** Miembro National Advisory Committee of International Conference on Shaping of Advanced Ceramics, 15-18 November 2009 Madrid, Spain.
Start date: 2009
- 8** **Name:** Miembro International Advisory Board Electroceramics XI Manchester, UK 31 August - 4 september 2008
Start date: 2008
- 9** **Name:** Vocal Comité Organizador XLVIII Congreso Anual de la Sociedad Española de Cerámica y Vidrio, Oviedo 29-31 Octubre 2008
Start date: 2008
- 10** **Name:** Miembro International Advisory Committee of International Conference on Electroceramic 2007, 6-10 Agoust 2007 Tanzania.
Start date: 2007
- 11** **Name:** Miembro Scientific Committee Electroceramica VIII Reunión Nacional, 24-26 June 2007 Aveiro Portugal.
Start date: 2007
- 12** **Name:** Vocal Comité Organizador XLVII Congreso Anual de la Sociedad Española de Cerámica y Vidrio, Toledo 24-26 Octubre 2007
Start date: 2007



- 13 Name:** Miembro Comité Científico VII Reunión Nacional Electrocerámica 30 junio-1 julio, Teruel, España.
Start date: 2005
- 14 Name:** Miembro International Advisory Committee of International Conference on Electroceramic 2005, 12-16 June 2005 Seoul, Korea.
Start date: 2005
- 15 Name:** Miembro International Advisory Board Electroceramics IX Cherbourg, France 1-3 June 2004,
Start date: 2004
- 16 Name:** Chairman Electroceramic X, 18-22 Junio Toledo, España
Start date: 2004, 2 years
- 17 Name:** 2003 Miembro Comité Científico VI Reunión Nacional y V Conferencia Iberoamericana en Electrocerámica 19-21 junio, Castellon, España.
Start date: 2003
- 18 Name:** Miembro International Advisory Board Electroceramics VIII 25-28 agosto 2002, Roma, Italia.
Start date: 2002
- 19 Name:** Miembro Comité Científico del International Conference on Advances in Materials and Processing Technologies (AMTP'01) 18-21 September 2001, Leganes, Madrid, España.
Start date: 2001
- 20 Name:** Chairman of Kick-Off Workshop COST ACTION 525 "Advanced Electroceramics: Grain Boundary Engineering", Madrid, 24-27 marzo 2001.
Start date: 2001
- 21 Name:** Miembro Comité Científico V Reunión Nacional de Electrocerámica, UPC, Barcelona 31 mayo 1 Junio 2001.
Start date: 2001
- 22 Name:** Presidencia de Mesa "Aplicaciones" en V Reunión Nacional de Electrocerámica, UPC, Barcelona 31 mayo 1 Junio 2001
Start date: 2001
- 23 Name:** Presidencia de Mesa "Electrocerámica" en XL Congreso Nacional de la Sociedad Española de Cerámica y Vidrio, 8-11 Noviembre, Onda, Castellón.
Start date: 2000
- 24 Name:** Miembro Comité Científico XL Congreso Nacional de la Sociedad Española de Cerámica y Vidrio, 8-11 Noviembre, Onda, Castellón.
Start date: 2000
- 25 Name:** Miembro Comité organizador III Reunión Iberoamericana en materiales electrocerámicos, 3-5 Abril México DF. México.
Start date: 2000



- 26 Name:** Member of the Institute of Electrical and Electronic Engineers, IEEE, USA.
Start date: 1999, 4 years
- 27 Name:** Presidente IV Reunión Nacional de Electrocerámica y II Conferencia Iberoamericana de Electrocerámica, ETSIT-UPM, Madrid 3-4 Junio 1999.
Start date: 1999
- 28 Name:** Presidencia de Mesa “Electrocerámica” en XXXIX Congreso Nacional de Cerámica y Vidrio, 17-20 Octubre 1999, Jaca
Start date: 1999
- 29 Name:** Presidencia de Mesa “Functional Ceramics 1” en Sintering 99, 1-3 November 1999, State College, PA, USA
Start date: 1999
- 30 Name:** Miembro Comité Científico Sintering 99, 1-3 November 1999, State College, PA, USA
Start date: 1999
- 31 Name:** 1999-2001 Scientific Secretary of X International Meeting on Ferroelectrics, Madrid-Madrid 3-7 september 2001
Start date: 1999, 2 years
- 32 Name:** Miembro Comisión Organizadora 1er Simposio Iberoamericano de Cerámica Electro-Electrónica, Sao Carlos, SP, Brasil 7-9 Mayo.
Start date: 1998
- 33 Name:** 1998 Miembro Comité Científico “Conferencia Hispano-Francesa sobre Aplicaciones de la Piezoelectricidad” Barcelona 29-30 Octubre 1998.
Start date: 1998
- 34 Name:** Presidente Sección Electrocerámica de la Sociedad Española de Cerámica y Vidrio.
Start date: 1998, 6 years
- 35 Name:** Presidencia de Mesa “Cerámica Avanzada” en XXXVIII Congreso Nacional de Cerámica y Vidrio, 18-21 Octubre 1998, Segovia.
Start date: 1998
- 36 Name:** 1998 Presidencia de Mesa “Caracterización” en Conferencia Hispano-Francesa sobre las Aplicaciones Piezoeléctricas CAP’98, 29-30 Octubre 1998, Barcelona.
Start date: 1998
- 37 Name:** Member of Organizing Committee of IV Self Propagating High Temperature Sintering. Toledo 6-10 October.
Start date: 1997
- 38 Name:** Presidente 3ª Reunión Nacional de Electrocerámica, Alcalá 19-20 Julio.
Start date: 1997



- 39 Name:** Miembro fundador de la Sociedad Española de Materiales
Start date: 1996
- 40 Name:** Member of the Scientific Advisory Board of Fourth European Ceramic Society, Riccione, Italy.
Start date: 1995, 1 year
- 41 Name:** Presidencia Sesión “Materiales Laminados” en II Reunión Nacional de Electrocerámica, Junio 22-23 1995 Aranjuez, Madrid
Start date: 1995
- 42 Name:** Presidencia Sesión “Materiales Laminados” en II Reunión Nacional de Electrocerámica, Junio 22-23 1995 Aranjuez, Madrid
Start date: 1995
- 43 Name:** Member of the International Center for Actuator and Transducer, The Pennsylvania State University, PA, USA.
Start date: 1994, 1 year
- 44 Name:** Member of the American Ceramic Society, USA.
Start date: 1993, 10 years
- 45 Name:** 1992-96 Secretario de la Sección de Ciencia Básica de la SECV
Start date: 1992, 4 years
- 46 Name:** Secretario de la "1ª Reunión Nacional de ELECTROCERAMICA". El Escorial, 18-19 Junio 1990.
Start date: 1991
- 47 Name:** General Secretary of THIRD EUROPEAN CERAMIC SOCIETY CONFERENCE Madrid 12-13 September 1993
Start date: 1991, 3 years
- 48 Name:** Miembro de la Sociedad Española de Cerámica y Vidrio
Start date: 1988

Qualifications and awards accrediting professional quality

- 1 Description:** Premio Extraordinario de Doctorado de la Universidad Autónoma de Madrid a Julian Jimenez por la tesis doctoral “Formación de esmaltes metalizados multifuncionales en soporte de gres porcelánico”.
Body conferring the credit: Universidad Autónoma de Madrid **Type of body:** University
Date of credit: 2011
- 2 Description:** Alfa de oro en la feria CEVISAMA 2009 a la empresa Kerafrit S.A. por la innovación tecnológica en el producto presentado NANOGLAZE®. El premio se otorga “por la obtención de un esmalte nanoestructurado que introduce propiedades hidrófobas, bactericidas, fungicidas y de autolimpieza mediante la incorporación de nanopartículas encapsuladas”. El producto que fue patentado, se ha desarrollado dentro del proyecto de investigación CENIT Domino y la empresa ha licenciado en exclusiva la patente internacional bajo contrato CSIC de 30/11/2008.



Body conferring the credit: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO

Date of credit: 2009

- 3** **Description:** Premio Joven Investigador en IX Reunión Nacional de Electrocerámica, Leganes 28-30 Junio de 2009 a Dña. Pilar Leret Moltó por el trabajo "Influencia del procesamiento en las propiedades dieléctricas de CCTO" P. Leret, J. J. Romero, F. Rubio-Marcos, F. Jiménez-Villacorta, M. A. de la Rubia, J. F. Fernández

Body conferring the credit: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO

Date of credit: 2009

- 4** **Description:** 1er Premio de fotografía científica en el XLVIII Congreso de la Sociedad Española de Cerámica y Vidrio, Oviedo 29-31 octubre 2008. Autores: E. Diaz, I. Lorite y J. F. Fernandez,

Body conferring the credit: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO

Date of credit: 2008

- 5** **Description:** Alfa de oro en la feria CEVISAMA 2006 a la empresa MACER S.L. por la innovación tecnológica en el producto presentado MOLCONTROL®. El premio se otorga "por el desarrollo de moldes sensorizados que permiten la determinación y corrección en tiempo real, de los parámetros de prensados mediante métodos no destructivos que inciden en la calidad final del producto cerámico". El producto que fue patentado, se desarrolla dentro del proyecto de investigación con la empresa.

Body conferring the credit: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO

Date of credit: 2007

- 6** **Description:** Accesit en el Premio de fotografía científica en el XLVII Congreso de la Sociedad Española de Cerámica y Vidrio, Toledo 24-26 octubre 2007. Autores: J. F. Fernandez, E. Diaz e I. Lorite

Body conferring the credit: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO

Date of credit: 2007

- 7** **Description:** 3er premio de fotografía científica en el XLVI Congreso de la Sociedad Española de Cerámica y Vidrio, Vall d'Alba 18-20 octubre 2006. Autor: J. F. Fernandez.

Body conferring the credit: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO

Date of credit: 2006

- 8** **Description:** Premio Joven Investigador en VII Reunión Nacional de Electrocerámica, Teruel 30 Junio 1 Julio de 2005 a Dña. Pilar Ochoa Pérez por el trabajo "Caracterización electromecánica de piezocomposites tipo címbalo" P. Ochoa, J. L. Pons, M. A. Rodríguez, J. F. Fernández

Body conferring the credit: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO

Date of credit: 2005

- 9** **Description:** Premio Joven Investigador en V Reunión Nacional de Electrocerámica, "Incorporación de la fase Zn7Sb2O12 previamente sintetizada en Varistores Cerámicos basados en ZnO". M. Peiteado, J. F. Fernández, A. C. Caballero

Body conferring the credit: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO

Date of credit: 2001



Number of recognised research periods

1 Number of recognised research periods: 5

Area : Non EU International

Issuing body: Consejo Superior de Investigaciones Científicas **Type of body:** State agency

Date of recognition: 2011

2 Number of recognised research periods: 4

Area : Non EU International

Issuing body: MINISTERIO DE EDUCACION Y CIENCIA

Date of recognition: 2011