



Carlos Pecharromán García

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Summary of CV

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

El nexa común de la actividad investigadora ha sido el análisis científico de las propiedades físicas de los sistemas heterogéneos desde un punto de vista, tanto teórico como experimental, con el fin de utilizar estos conocimientos para las aplicaciones tecnológicas orientadas a la fabricación de nuevos materiales y dispositivos. En este sentido hay que destacar que este curriculum tiene tanto aportaciones científicas como tecnológicas.

Las aportaciones científicas que aparecen en el CVN completo son 117 (27 de abril de 2023), con un índice $h=35$ (Scopus) y 4389 citas (37 citas por publicación). Estadística completa en el enlace https://www.scopus.com/cto2/main.uri?ctold=CTODS_1635387626&authors=7004631935&origin=AuthorNamesList

Varias sublíneas de la actividad investigadora han sido pioneras, y como consecuencia de ello, sus resultados se han transferido a la industria produciéndose materiales a nivel industrial basadas en estas investigaciones como puede comprobarse en el apartado C del este CV.

La financiación de la investigación se ha realizado gracias en parte a los 22 proyectos financiados por entidades públicas en los que se ha participado (8 como IP). De ellos 15 fueron con financiación estatal, 1 de la US Air Force, 3 de cooperación internacional del CSIC (1 como IP) y 1 europeo (NANOKER) en el que ejercí como responsable de una de las líneas ("Cerámicas transparentes"). También se negociaron 13 contratos con compañías industriales (11 de ellos como IP). Como resultado de todo ello, se obtuvo una financiación acumulada de 1.794.853,82 € sin contar los proyectos regulados por organismos extranjeros (Tan solo el proyecto Nanoker tenía una financiación de 11.000.000 € por parte de la UE).

Aparte de los proyectos con entidades extranjeras, muchas de las publicaciones se han realizado con colegas de otros países. Entre ellos de EEUU, Alemania (en cada uno de estos países hice una estancia postdoctoral) Brasil, Italia, Francia, Australia (en donde estuve 4 meses en un periodo sabático), República Checa (país con el que firmamos dos convenios de visitas de investigadores), Taiwan (con el que obtuvimos otro convenio de intercambio), Israel, etc.

Parte de la participación en la investigación industrial estuvo basada en 9 patentes de las que soy autor, 3 de las cuales han sido transferidas a otras tantas compañías. Una de éstas, en la que se desarrolla un procedimiento de síntesis industrial de nanopartículas es la base de una nueva línea de producto de la compañía Tolsa S.A. (De la que es responsable uno de los doctores que formé, el Dr. Antonio Esteban Cubillo). Se puede consultar la página web <https://www.tolsa.com/es/innovacion/>.

Aparte de mi labor investigadora, en el ICMM-CSIC soy el responsable del servicio de espectroscopía IR y elipsometría (abierto a toda la comunidad científica), en el que me encargo de asistir a los usuarios y de desarrollar nuevas técnicas de medida, alguna de las cuales se han usado en publicaciones, tanto mías como de otros usuarios del servicio.

Participo en el curso del ICMM-CSIC que impartimos todos los años llamado Fronteras en Ciencia de Materiales (<https://wp.icmm.csic.es/fronteras/>).

Referente a divulgación científica, aparte de alguna pequeña contribución para revistas científicas, en los últimos años pertenezco a una asociación Astronómica, (Cruz del Norte) que



ha publicado en Youtube algunas conferencias sobre la ciencia de materiales aplicada a la instrumentación astronómica y además, en el otoño del 2022 participé con esta asociación en un curso sobre astrofotografía en el MUNCYT como conferenciante (<https://www.fecyt.es/es/noticia/el-muncyt-de-alcobendas-organiza-un-curso-sobre-astrofotografia>).

Se han dirigido 5 tesis doctorales, y en todos los casos los doctores tienen trabajo en centros de I+D privados (4) y públicos (1). También se han supervisado 3 prácticas externas para estudiantes de grado, 2 de ellas de alumnas de la “Université Polytechnique” de Paris.

He colaborado como revisor con un gran número de revistas científicas y he sido editor asociado de la “Materials” durante 1 año. También he evaluado varios proyectos de I+D de organismos extranjeros.



General quality indicators of scientific research

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

4 "Sexenios" in 2022 waiting to apply for the 5th at 2023

Supervised PhD: 5 of which 2 during the last 10 years

Citations: 4388 (April-2023)

Last 5 years citation average : 251 ct/year (2018/2022)

117 indexed scientific publications

First quartil publication: 80

Factor h:35 (Scopus)

**Carlos Pecharrromán García**

Surname(s): **Pecharrromán García**
 Name: **Carlos**
 ORCID: **0000-0002-5431-1002**
 ScopusID: **7004631935**
 ResearcherID: **B-1883-2010**
 Contact aut. region/reg.: **Community of Madrid**

Current professional situation

Employing entity: Consejo Superior de Investigaciones Científicas
Type of entity: State agency
Department: Materiales Multifuncionales, Instituto de Ciencia de Materiales de Madrid
Professional category: Investigador Científico **Educational Management (Yes/No):** No
City employing entity: Madrid, Community of Madrid, Spain
Phone: (34) 913348991 **Email:** cpg@icmm.csic.es
Start date: 09/06/2009
Type of contract: Civil servant **Dedication regime:** Full time
Primary (UNESCO code): 220207 - Interaction of electromagnetic waves with matter; 220914 - Optical properties of solids; 221102 - Composites
Secondary (UNESCO code): 331203 - Ceramics; 331208 - Material properties
Tertiary (UNESCO code): 331208 - Material properties
Identify key words: Description; Optical properties; General interest material and subjects noncovered in other parts

Previous positions and activities

	Employing entity	Professional category	Start date
1	Instituto de Ciencia de Materiales de Madrid	Científico Titular	17/08/2000
2	Instituto de Ciencia de Materiales de Madrid	Becario postdoctoral CAM	05/2000
3	Instituto de Ciencia de Materiales de Madrid	Becario postdoctoral Proyecto	01/2000
4	Instituto de Ciencia de Materiales de Madrid	Investigador Contratado (MEC)	06/1998
5	Instituto de Ciencia de Materiales de Madrid	Investigador Contratado (MEC)	01/1997
6	State University of New York at Stony Brook	Becario Postdoctoral (OTAN).	01/1996
7	Institut für Festkörperforschung (IFF),	Beca/Contrato C.E.	05/1994
8	Instituto de Ciencia de Materiales de Madrid	Becario F.P.I.	01/1990



- 1** **Employing entity:** Instituto de Ciencia de Materiales de Madrid **Type of entity:** State agency
Professional category: Científico Titular
Start-End date: 17/08/2000 - 08/06/2009
- 2** **Employing entity:** Instituto de Ciencia de Materiales de Madrid **Type of entity:** State agency
Professional category: Becario postdoctoral CAM
Start-End date: 05/2000 - 08/2000
- 3** **Employing entity:** Instituto de Ciencia de Materiales de Madrid
Professional category: Becario postdoctoral Proyecto
Start-End date: 01/2000 - 01/2000
- 4** **Employing entity:** Instituto de Ciencia de Materiales de Madrid **Type of entity:** State agency
Professional category: Investigador Contratado (MEC)
Start-End date: 06/1998 - 01/2000
- 5** **Employing entity:** Instituto de Ciencia de Materiales de Madrid
Professional category: Investigador Contratado (MEC)
Start-End date: 01/1997 - 06/1998
- 6** **Employing entity:** State University of New York at Stony Brook
Professional category: Becario Postdoctoral (OTAN).
Start-End date: 01/1996 - 12/1996 **Duration:** 1 year
- 7** **Employing entity:** Institut für Festkörperforschung (IFF),
Professional category: Beca/Contrato C.E.
Start-End date: 05/1994 - 10/1995
- 8** **Employing entity:** Instituto de Ciencia de Materiales de Madrid
Professional category: Becario F.P.I.
Start-End date: 01/1990 - 10/1993



Education

University education

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

University degree: Higher degree

Name of qualification: Licenciado en Ciencias Físicas Especialidad Física de Materiales

Degree awarding entity: Universidad Complutense de Madrid **Type of entity:** University

Date of qualification: 02/07/1989

Doctorates

Doctorate programme: Programa Oficial de Doctorado en Física Aplicada

Degree awarding entity: Universidad Autónoma de Madrid **Type of entity:** University

Date of degree: 20/01/1994

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English	A1	A1	A1	A1	A1
French	A2	A2	A2	A2	B1
German	B1	B1	B1	B1	C1

Teaching experience

Experience supervising doctoral thesis and/or final year projects

- Project title:** Metamateriales metal-cerámica para aplicaciones en transferencia inalámbrica de energía
Entity: Universidad de Oviedo **Type of entity:** University
Student: Celia Mallada Rivera
Date of reading: 18/03/2021
- Project title:** "Influencia del procesamiento en los mecanismos de scattering de luz en cerámicas de alúmina transparente"
Entity: Universidad Autónoma de Madrid, Facultad de Ciencias, Dpto. Física **Type of entity:** University
Student: Gustavo Mata Osoro
Obtained qualification: Sobresaliente "Cum Laude"
Date of reading: 11/01/2012



- 3** **Project title:** Obtención de nanopartículas oxídicas, metálicas y aleaciones en sistemas jerárquicos en base sepiolita para aplicaciones multifuncionales
Entity: Universidad Autónoma de Madrid: Facultad de Ciencias, Dpto. Química inorgánica
Student: Raúl Pina Zapardiel
Obtained qualification: Sobresaliente "Cum Laude"
Date of reading: 30/01/2011
- 4** **Project title:** Obtención de nanopartículas metálicas monodispersas y resistentes a la corrosión embebidas en sepiolita
Entity: Universidad Autónoma de Madrid: Facultad de Ciencias, Dpto. Química inorgánica
Student: Antonio Esteban Cubillo
Obtained qualification: Sobresaliente "Cum Laude"
Date of reading: 13/01/2007
- 5** **Project title:** Nuevos Materiales Percolativos Cerámica-Metal Micro Y Nanoestructurados BaTiO₃/Ni, SrTiO₃/Ni Y 3Y-TZP/Ni
Entity: Universidad Autónoma de Madrid : Facultad de Ciencias, Dpto. Química inorgánica AÑO: 2004
Student: Fátima Esteban Betegón
Obtained qualification: Sobresaliente "Cum Laude"
Date of reading: 07/05/2004

Scientific and technological experience

Scientific or technological activities

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

- 1** **Name of the project:** Integración a gran escala de dispositivos optoelectrónicos 2D en plataformas fotónicas PIC estándar (WOW-2D)
Entity where project took place: Instituto de Ciencia de Materiales de Madrid
Type of entity: State agency
City of entity: Madrid, Community of Madrid, Spain
Name principal investigator (PI, Co-PI....): Carlos Pecharromás García
Nº of researchers: 2
Funding entity or bodies: LA MINISTRA DE CIENCIA E INNOVACIÓN
Type of entity: Public Research Body
City funding entity: Madrid
Start-End date: 01/10/2022 - 30/09/2024
Total amount: 52.900 €
- 2** **Name of the project:** DESARROLLO A BAJA TEMPERATURA DE MATERIALES NANOESTRUCTURADOS DE MATRIZ INORGANICA PARA APLICACIONES DE TECNOLOGIAS AVANZADAS
Entity where project took place: Instituto de Ciencia de Materiales de Madrid
Type of entity: State agency
City of entity: Madrid, Community of Madrid, Spain
Name principal investigator (PI, Co-PI....): Carlos Pecharromás García; Belén Cabal Álvarez



Nº of researchers: 7

Funding entity or bodies:

Agencia Estatal de Investigación

Type of entity: State agency

City funding entity: Madrid, Spain

Start-End date: 01/09/2021 - 31/08/2024

Total amount: 72.600 €

3 Name of the project: Reemplazo de equipamiento para el servicio científico-técnico de Espectroscopía de Infrarrojo del ICMM-CSIC

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

Name principal investigator (PI, Co-PI....): C. Pecharromás

Nº of researchers: 1

Funding entity or bodies:

Ministerio de Ciencia e Innovación

Type of entity: Ministerio

Start-End date: 01/01/2018 - 31/12/2019

Total amount: 207.015,62 €

4 Name of the project: " MATERIALES NANOESTRUCTURADOS MULTIFUNCIONALES DE BASE INORGÁNICA O POLIMÉRICA PARA APLICACIONES EN ENERGÍA Y TECNOLOGÍAS DE LA COMUNICACIÓN"

Name principal investigator (PI, Co-PI....): C. Pecharromás Puesto ocupado: Investigador Principal

Funding entity or bodies:

DIRECCIÓN GENERAL DE INVESTIGACIÓN Y GESTIÓN DEL PLAN NACIONAL DE I+D+i. Cantidad: 147000 €

Start-End date: 01/01/2012 - 31/12/2014

Duration: 3 years

Total amount: 147.000 €

5 Name of the project: Nanocompuestos cerámicos para el rango de THz e infrarrojos (2010CZ0004).

Entity where project took place: CSIC- Academia de Ciencias de la República Checa **Type of entity:** State agency

City of entity: Praga, Czech Republic

Name principal investigator (PI, Co-PI....): C. Pecharromás; J. L. Menéndez

Nº of researchers: 2

Start-End date: 01/01/2011 - 31/12/2012

Total amount: 4.350 €

6 Name of the project: Proyecto de cooperación con Taiwan P2006TW01 "Multifuntional ceramic-metal composites" 2006TW0004

Entity where project took place: CSIC

Type of entity: State agency

City of entity: Taiwan

Name principal investigator (PI, Co-PI....): José Serafín Moya Corral; Carlos Pecharromás García; Ramón Torrecillas; Sonia López Esteban; Luis Antonio Díaz

Nº of researchers: 5

Start-End date: 01/01/2007 - 31/12/2008

Total amount: 9.120 €

7 Name of the project: Materiales de electrodo para baterías de ión-litio (cátodos) y para Supercondensadores

Name principal investigator (PI, Co-PI....): J. M. Rojo Puesto ocupado: Investigador

**Funding entity or bodies:**

Comisión Interministerial de Ciencia y Tecnología

Type of entity: Body, others**Start-End date:** 2005 - 2008**Duration:** 3 years**Total amount:** 195.517 €

- 8 Name of the project:** " NUEVA GENERACIÓN DE FOTOCATALIZADORES ACTIVOS EN EL VISIBLE PARA CONSTRUCCIÓN: MATERIALES HÍBRIDOS NANOESTRUCTURADOS BASADOS EN SILICATOS NATURALES (NANOFOTOVISCON)" RTC-2015-3529-5

Name principal investigator (PI, Co-PI....): C. Pecharromás Puesto ocupado: Investigador Principal subproyecto CSIC**Funding entity or bodies:**

04 €

DESARROLLO E INNOVACIÓN SECRETARÍA GENERAL DE CIENCIA

SECRETARÍA DE ESTADO DE INVESTIGACIÓN

TECNOLOGÍA E INNOVACIÓN DIRECCIÓN GENERAL DE INNOVACIÓN Y COMPETITIVIDAD Cantidad: 204.282

Start date: 07/2015**Duration:** 3 years

- 9 Name of the project:** " DISPOSITIVOS BASADOS EN METAMATERIALES CON RESONADORES DE ALTAS PRESTACIONES: DESARROLLO DE LOS MATERIALES" TEC2014-53088-C3-2-R

Name principal investigator (PI, Co-PI....): C. Pecharromás Puesto ocupado: Investigador Principal**Funding entity or bodies:**

00 €

DESARROLLO E INNOVACIÓN SECRETARÍA GENERAL DE CIENCIA

SECRETARÍA DE ESTADO DE INVESTIGACIÓN

TECNOLOGÍA E INNOVACIÓN DIRECCIÓN GENERAL DE INNOVACIÓN Y COMPETITIVIDAD Cantidad: 74.415

Start date: 2015**Duration:** 2 years

- 10 Name of the project:** "DESARROLLO DE NUEVOS MATERIALES NANOESTRUCTURADOS CON PROPIEDADES MEJORADAS DE APANTALLAMIENTO FRENTE A LA RADIACIÓN ELECTROMAGNÉTICA (APANTALLA)"

Name principal investigator (PI, Co-PI....): J.L. Menéndez Puesto ocupado: Investigador**Funding entity or bodies:**

46€

DESARROLLO E INNOVACIÓN SECRETARÍA GENERAL DE CIENCIA

SECRETARÍA DE ESTADO DE INVESTIGACIÓN

TECNOLOGÍA E INNOVACIÓN DIRECCIÓN GENERAL DE INNOVACIÓN Y COMPETITIVIDAD Cantidad: 165.879

Start date: 2013**Duration:** 2 years

- 11 Name of the project:** " MATERIALES EM ULTRAFUNCIONALES: INVISIBLES, ZURDOS Y DISIPATIVOS EN EL RANGO DE LAS MW Y THZ"

Name principal investigator (PI, Co-PI....): C. Pecharromás Puesto ocupado: Investigador Principal**Funding entity or bodies:**



DIRECCIÓN GENERAL DE INVESTIGACIÓN Y GESTIÓN DEL PLAN NACIONAL DE I+D+i. Cantidad:
12.000 €

Start date: 2010

12 Name of the project: " Desarrollo a nivel industrial de lustres para esmaltes sobre gres porcelánicos"

Name principal investigator (PI, Co-PI....): C. Pecharromás Puesto ocupado: Investigador Principal

Funding entity or bodies:

CICYT-PETRI-TOLSA S.A-KERABEN S.A. Cantidad: 151.250 €

Start date: 2008

Duration: 2 years

13 Name of the project: " Estudio de la obtención y caracterización (estructural, óptica y magnética) de nanopartículas metálicas (Cu, Ag, Au, Fe, Ni, Co) embebidas y/o soportadas sobre fibras de sepiolita; Estudio de obtención de nanorecubrimientos metálicos sobre sepiolita y caracterización de los productos obtenidos".

Name principal investigator (PI, Co-PI....): J. S. Moya Puesto ocupado: Investigador

Funding entity or bodies:

TOLSA S.A Cantidad: 223.500 € Subcontrato del proyecto CENIT 2007-1001 DOMINO dotado con 14.008.610€

Start date: 01/01/2007

Duration: 3 years - 11 months - 30 days

14 Name of the project: Materiales Compuestos Nanoestructurados Cerámica-Cerámica y Cerámica-Metal para Aplicaciones Ópticas y Estructurales

Name principal investigator (PI, Co-PI....): J. S. Moya Puesto ocupado: Investigador

Funding entity or bodies:

00 €

CICYT Cantidad: 211.750

Start date: 01/10/2006

Duration: 2 years - 11 months - 29 days

15 Name of the project: " IP NANOKER" NMP3-CT-2005-515784

Name principal investigator (PI, Co-PI....): R. Torrecillas Puesto ocupado: Investigador principal del subproyecto 07 "Optical Windows"

Start date: 01/05/2005

Duration: 2 years - 11 months - 29 days

16 Name of the project: " Fabricación de nanopartículas metálicas soportadas sobre filosilicatos pseudolaminares"

Name principal investigator (PI, Co-PI....): C. Pecharromás Puesto ocupado: Investigador Principal

Funding entity or bodies:

CICYT-PETRI-TOLSA S.A Cantidad: 52.000 €

Start date: 03/12/2004

Duration: 1 year - 11 months - 30 days

17 Name of the project: " NANOMAT"

Name principal investigator (PI, Co-PI....): Ramón Torrecillas (INCAR-CSIC) Puesto ocupado: Investigador.

Funding entity or bodies:

CICYT Cantidad: 190.500 €

Start date: 01/12/2003

Duration: 3 years



- 18** **Name of the project:** "Materiales para baterías recargables de litio: cátodos derivados del LiMn₂O₄ y electrolitos sólidos tipo Nasicon"
Name principal investigator (PI, Co-PI....): J. M Rojo Puesto ocupado: Investigador.
Funding entity or bodies:
CICYT Cantidad: 185.683 €.
Start date: 28/12/2001 **Duration:** 2 years - 11 months - 30 days
- 19** **Name of the project:** "Materiales compuestos cerámica-metal para aplicaciones multifuncionales"
Name principal investigator (PI, Co-PI....): J. Serafín Moya Puesto ocupado: Investigador.
Funding entity or bodies:
CICYT Cantidad: 12.9 Mptas.
Start date: 01/01/2001 **Duration:** 2 years - 11 months - 30 days
- 20** **Name of the project:** "Materiales compuestos cerámica-metal laminados y con función gradiente"
Name principal investigator (PI, Co-PI....): J. Serafín Moya Puesto ocupado: Contratado postdoctoral
Funding entity or bodies:
CICYT Cantidad: 14.7 Mptas.
Start date: 01/08/1997 **Duration:** 2 years - 11 months - 30 days
- 21** **Name of the project:** "Novel Electric-field Effects in Quantum Wells, Superlattices, and Microcavities "
Name principal investigator (PI, Co-PI....): Emilio Méndez Puesto ocupado: Becario postdoctoral.
Funding entity or bodies:
US Army Research Office
Start date: 08/1995 **Duration:** 4 years - 3 months
- 22** **Name of the project:** "Conductividad iónica de Materiales Tipo Nasicon y óxidos Mixtos Bi₂O₃, en relación a la estructura cristalina y composición química"
Name principal investigator (PI, Co-PI....): J. María Rojo Puesto ocupado: Contratado postdoctoral.
Nº of researchers: 5
Funding entity or bodies:
Comisión Interministerial de Ciencia y Tecnología **Type of entity:** Body, others
Start date: 06/1995 **Duration:** 3 years

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

- 1** **Name of the project:** Caracterización Multifuncional de partículas nanoestructuradas de sepiolita
Degree of contribution: Coordinator of total project, network or consortium
Nº of researchers: 1
Funding entity or bodies:
Tolsa, S.A. **Type of entity:** Business
Start date: 20/12/2018 **Duration:** 1 year
Total amount: 50.000 €
- 2** **Name of the project:** ESTUDIO PARA LA VIABILIDAD DE FABRICACIÓN DE SUSPENSIÓN MAGNETO Y TERMO-REOLÓGICAS CON BASE EN SEPIOLITA
Name principal investigator (PI, Co-PI....): C. Pecharrómán
Nº of researchers: 1

**Funding entity or bodies:**

Tolsa, S.A.

Type of entity: Business**Start date:** 20/06/2018**Duration:** 3 months**Total amount:** 3.630 €**3 Name of the project:** DETERMINACIÓN DEL ESPECTRO DE PERMEABILIDAD MAGNÉTICA DE LOS MATERIALES PULVERULENTOS**Degree of contribution:** Coordinator of total project, network or consortium**Nº of researchers:** 1**Participating entity/entities:** Tolsa, S.A.**Funding entity or bodies:**

Tolsa, S.A.

Type of entity: Business**Start date:** 20/02/2018**Duration:** 2 months**Total amount:** 1.210 €**4 Name of the project:** Estudio de mejora de propiedades termo-ópticas de materiales compuestos de fibra de carbono**Degree of contribution:** Coordinator of total project, network or consortium**Name principal investigator (PI, Co-PI....):** C.Pecharromán**Nº of researchers:** 1**Funding entity or bodies:**

AIRBUS DEFENCE AND SPACE, S.A.U.

Start date: 01/10/2017**Duration:** 3 months**Total amount:** 3.569,5 €**5 Name of the project:** Medición de láminas de Al PARA FTIR CON ACCESORIO DE ESFERA INTEGRADORA**Degree of contribution:** Coordinator of total project, network or consortium**Name principal investigator (PI, Co-PI....):** C. Pecharromán**Nº of researchers:** 1**Funding entity or bodies:**

FUNDACION TECNALIA R&I

Start date: 12/05/2017**Duration:** 2 months**Total amount:** 2.178 €**6 Name of the project:** SERVICIO DE ESPECTROSCOPIA INFRARROJA. CARACTERIZACIÓN DE LA CORROSIÓN DE TUBERIAS Y LAMINAS DE COBRE POR ESPECTROSCOPIA INFRARROJA**Degree of contribution:** Coordinator of total project, network or consortium**Name principal investigator (PI, Co-PI....):** C. Pecharromán**Nº of researchers:** 1**Funding entity or bodies:**

MERAK SISTEMAS INTEGRADOS DE CLIMATIZACIÓN, S.A.

Start date: 14/06/2011**Duration:** 1 month**Total amount:** 2.006 €**7 Name of the project:** " DESARROLLO DE UNA NUEVA TECNOLOGÍA DE REGENERACIÓN AUTÓNOMA E INTELIGENTE DE MATERIALES"**Degree of contribution:** Researcher**Name principal investigator (PI, Co-PI....):** José Serafín Moya Corral; Carlos Pecharromán García



Nº of researchers: 2

Participating entity/entities: Tolsa, S.A.

Funding entity or bodies:

Tolsa, S.A.

Type of entity: Business

Start date: 01/01/2011

Duration: 1 year

Total amount: 3.000 €

8 Name of the project: " Desarrollo a nivel industrial de lustres para esmaltes sobre gres porcelánicos".

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

Name principal investigator (PI, Co-PI....): Carlos Pecharromán García

Funding entity or bodies:

Tolsa, S.A.

Type of entity: Business

City funding entity: Madrid, Community of Madrid, Spain

Keraben, S.A.

Type of entity: Business

City funding entity: Nules, Valencian Community, Spain

Start date: 01/07/2007

Duration: 2 years

Total amount: 6.000 €

9 Name of the project: Fabricación de nanopartículas metálicas soportadas sobre filosilicatos pseudolaminares

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

Name principal investigator (PI, Co-PI....): C. Pecharromán

Funding entity or bodies:

Tolsa, S.A.

Type of entity: Business

Start date: 04/05/2006

Duration: 1 year

Total amount: 2.000 €

10 Name of the project: Fabricación de nanopartículas metálicas soportadas sobre filosilicatos pseudolaminares

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

Name principal investigator (PI, Co-PI....): C. Pecharromán

Nº of researchers: 1

Funding entity or bodies:

Tolsa, S.A.

Type of entity: Business

Start date: 03/12/2004

Duration: 2 years

Total amount: 52.000 €

11 Name of the project: Fabricación de nanopartículas metálicas soportadas sobre filosilicatos pseudolaminares

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

Name principal investigator (PI, Co-PI....): C. Pecharromán

Funding entity or bodies:

Tolsa, S.A.

Type of entity: Business

Start date: 29/09/2003

Duration: 3 years - 2 months

Total amount: 12.000 €

12 Name of the project: INVESTIGACION PARA URALITA REFERENTE A PANELES Y MATERIALES PARA LA CONSTRUCCION EN GENERAL, CON PROPIEDADES AISLANTES Y/O INHIBIDORAS DE EMISIONES, ONDAS Y CAMPOS RADIOELECTRICOS Y/O MAGNETICOS



Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): C. Pecharromás; J.S. Moya
Nº of researchers: 2
Participating entity/entities: URALITA SISTEMAS DE TUBERIAS, S.A.
Funding entity or bodies:
URALITA PRODUCTOS Y SERVICIOS, S.A.

Start date: 01/11/2002 **Duration:** 1 year
Total amount: 144.000 €

- 13 Name of the project:** Desarrollo de una célula lambda para el sector de automoción
Degree of contribution: Researcher
Name principal investigator (PI, Co-PI....): R. Torrecillas; C. Pecharromás; j.S. Moya
Nº of researchers: 3
Funding entity or bodies:
FAE
Start date: 01/02/2002 **Duration:** 1 year
Total amount: 60.000 €

Results

Industrial and intellectual property

- 1 Title registered industrial property:** MATERIAL COMPUESTO FOTOCATALÍTICO Y USO DEL MISMO
Inventors/authors/obtainers: José Serafín MOYA Corral; Carlos Pecharromás García; Belén Cabal Álvarez; Adolfo Fernández Valdés; Sonia López Esteban
Entity holder of rights: Consejo Superior de Investigaciones Científicas
Nº of application: ES 2 837 526 B2
Country of inscription: Spain, Community of Madrid
Date of register: 30/12/2019
Conferral date: 25/10/2021
- 2 Title registered industrial property:** POLVO DE COMPOSICIÓN VÍTREA CON ACTIVIDAD BIOCIDA
Type of industrial property: Patent of invention
Inventors/authors/obtainers: José Moya; Leticia Esteban; Carlos Pecharromás; Francisco Malpartida.
Entity holder of rights: Consejo Superior de Investigaciones Científicas
Nº of application: P200931137
Country of inscription: Spain
Date of register: 09/12/2009
Spanish patent: Yes **EU patent:** Yes
International non-EU patent: Yes
- 3 Title registered industrial property:** PROCEDIMIENTO DE DOPAJE PARA LA SINTERIZACIÓN DE ?-ALÚMINA Y MATERIAL DE ?-ALÚMINA POLICRISTALINA
Inventors/authors/obtainers: Marta Suárez Menéndez; Adolfo Fernández Valdés; Ramón Torrecillas San Millán; José Luis Menéndez Río; Carlos Pecharromás García.
Entity holder of rights: Consejo Superior de Investigaciones Científicas
Nº of application: P200702690
Country of inscription: Spain



Date of register: 15/10/2007

Companies: 8

4 Title registered industrial property: PROCEDIMIENTO DE OBTENCIÓN DE ESMALTES METALIZADOS EN PAVIMENTOS CERÁMICOS.

Inventors/authors/obtainers: Antonio Esteban Cubillo; José Serafín Moya Corral; Carlos Pecharroman García; J. F. Fernández Lozano; Raúl Pina Zapardiel; Julián Jiménez Reinosa; .

Entity holder of rights: Consejo Superior de Investigaciones Científicas

Nº of application: 2008/0701

Country of inscription: Spain

Date of register: 13/06/2007

Companies: Kerafrit S.A. 7

5 Title registered industrial property: MATERIAL NANOESTRUCTURADO ÓXIDO CERÁMICO/N-W, PROCEDIMIENTO DE OBTENCIÓN Y SUS APLICACIONES.

Inventors/authors/obtainers: José S. Moya Corral; Carlos Pecharromán García; Sonia López Esteban; Teresa Rodríguez Suárez; Luis A. Díaz Rodríguez; Ramón Torrecillas San Millán

Entity holder of rights: Consejo Superior de Investigaciones Científicas

Nº of application: 200602968

Country of inscription: Spain

Date of register: 21/11/2006

Companies: Boker (licenciada). 6

6 Title registered industrial property: SENSOR DE HUMEDAD BASADO EN NANOPARTÍCULAS DE ÓXIDO DE HIERRO SOPORTADAS EN SEPIOLITA.

Inventors/authors/obtainers: José S. Moya; Antonio Esteban Cubillo; Carlos Pecharromán; Jean Marc Tulliani; Alfredo Negro; Laura Montanaro.

Entity holder of rights: Consejo Superior de Investigaciones Científicas

Nº of application: 200501554

Country of inscription: Spain

Date of register: 24/06/2005

Companies: 5

7 Title registered industrial property: PROCEDIMIENTO PARA PREPARAR NANOPARTÍCULAS METÁLICAS SOPORTADOS SOBRE FILOSILICATOS PSEUDOLAMINARES

Inventors/authors/obtainers: J. S. Moya Corral; C. Pecharromán García; A. Álvarez Berenguer; J. Limpo Orozco; E. Aguilar Díez; J. Santarén Romé.

Entity holder of rights: TOLSA S.A.

Nº of application: 2004/0004

Date of register: 15/10/2003

Spanish patent: Yes

EU patent: Yes

International non-EU patent: Yes

PCT patent: Yes

Operating aut.region/region: Central African Republic

Companies: TOLSA S.A. 4

Creating an innovative enterprise: Yes

8 Title registered industrial property: PROCEDIMIENTO DE OBTENCIÓN DE MATERIALES COMPUESTOS FERRITA-CIRCONA

Inventors/authors/obtainers: José Serafín MOYA CORRAL; José Florindo BARTOLOMÉ GÓMEZ; Sonia LÓPEZ ESTEBAN; Carlos PECHARROMÁN GARCÍA; Joaquín REQUENA BALMASEDA; Miguel Angel PARIS TORRES; Juan Manuel ARCAS GUIJARRO

Entity holder of rights: Consejo Superior de Investigaciones Científicas



Nº of application: P200302560
Country of inscription: Spain
Date of register: 01/10/2003
Companies: 3

- 9** **Title registered industrial property:** PROCEDIMIENTO DE OBTENCIÓN DE MATERIALES HOMOGÉNEOS COMPUESTOS FERROELÉCTRICO-METAL
Inventors/authors/obtainers: C. Pecharromás García y J. S. Moya Corral
Entity holder of rights: Consejo Superior de Investigaciones Científicas
Nº of application: P200001701
Country of inscription: Spain
Date of register: 07/07/2000
Companies: 2

Scientific and technological activities

Scientific production

H index: 35
Date of application: 24/04/2023
Fuente de Índice H: SCOPUS

Publications, scientific and technical documents

- 1** A. Tolosana-Moranchel; C. Pecharromás; M. Faraldos; A. Bahamonde. Strong effect of light scattering by distribution of TiO_2 particle aggregates on photocatalytic efficiency in aqueous suspensions. Chemical Engineering Journal. 403, 2021. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85088276569&doi=10.1016%2fj.cej.2020.126186&partnerID=40&md5=7be837eb4daae8d7da8860fb995e1cf5>>.
Type of production: Scientific paper **Format:** Journal
Position of signature: 2
Total no. authors: 4 **Corresponding author:** No
Source of citations: SCOPUS **Citations:** 30
Relevant publication: Yes
- 2** Jose Angel Pariente; Niccolò Caselli; Carlos Pecharromás; Alvaro Blanco; Cefe López. Vacancies in Self-Assembled Crystals: An Archetype for Clusters Statistics at the Nanoscale. Small. n/a - n/a, pp. 2002735 - 2002735. 25/09/2020. Available on-line at: <<https://onlinelibrary.wiley.com/doi/abs/10.1002/sml.202002735>>.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Relevant publication: Yes
- 3** M.F. Acosta; S.G. Rodrigo; L. Martín-Moreno; C. Pecharromás; R.I. Merino. Micropillar Templates for Dielectric Filled Metal Arrays and Flexible Metamaterials. Advanced Optical Materials. 5 - 3, pp. 1600670. 2017. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-85003794435&partnerID=MN8TOARS>>.
Type of production: Scientific paper **Format:** Journal
Corresponding author: No
Impact source: ISI **Category:** Atomic and Molecular Physics, and Optics
Impact index in year of publication: 6.875 **Journal in the top 25%:** Yes

**Position of publication:** 6**No. of journals in the cat.:** 92**Relevant publication:** Yes**4**

Sean S. E. Collins; Michela Cittadini; Carlos Pecharroman; Alessandro Martucci; Paul Mulvaney. Hydrogen Spillover between Single Gold Nanorods and Metal Oxide Supports: A Surface Plasmon Spectroscopy Study. *ACS Nano*. 9 - 8, pp. 7846 - 7856. 2015. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper**Format:** Journal**Position of signature:** 3**Total no. authors:** 5**Source of citations:** SCOPUS**Citations:** 57**Relevant publication:** Yes**5**

J. S. Moya; S. Lopez-Esteban; C. Pecharroman. The challenge of ceramic/metal microcomposites and nanocomposites. *Progress in Materials Science*. 52 - 7, pp. 1017 - 1090. 2007. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper**Format:** Journal**Position of signature:** 3**Total no. authors:** 3**Source of citations:** SCOPUS**Citations:** 273**Relevant publication:** Yes**6**

P. Mulvaney; J. Perez-Juste; M. Giersig; L. M. Liz-Marzan; C. Pecharroman. Drastic surface plasmon mode shifts in gold nanorods due to electron charging. *Plasmonics*. 1 - 1, pp. 61 - 66. 2006. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper**Format:** Journal**Position of signature:** 5**Total no. authors:** 5**Source of citations:** SCOPUS**Corresponding author:** Yes**Citations:** 138**Relevant publication:** Yes**7**

C. Pecharroman; A. Esteban-Cubillo; I. Montero; J. S. Moya; E. Aguilar; J. Santaren; A. Alvarez. Monodisperse and corrosion-resistant metallic nanoparticles embedded into sepiolite particles for optical and magnetic applications. *Journal of the American Ceramic Society*. 89 - 10, pp. 3043 - 3049. 2006. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper**Format:** Journal**Position of signature:** 1**Total no. authors:** 7**Source of citations:** SCOPUS**Citations:** 62**Relevant publication:** Yes**8**

C. Pecharroman; J. F. Bartolome; J. Requena; J. S. Moya; S. Deville; J. Chevalier; G. Fantozzi; R. Torrecillas. Percolative mechanism of aging in zirconia-containing ceramics for medical applications. *Advanced Materials*. 15 - 6, pp. 507 - 511. 2003. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper**Format:** Journal



Position of signature: 1

Total no. authors: 8

Source of citations: SCOPUS

Citations: 77

Relevant publication: Yes

9

C. Pecharroman; F. Esteban-Betegon; J. F. Bartolome; S. Lopez-Esteban; J. S. Moya. New percolative BaTiO₃-Ni composites with a high and frequency-independent dielectric constant (epsilon(r) approximate to 80,000). *Advanced Materials*. 13 - 20, pp. 1541 - +. 2001. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Total no. authors: 5

Source of citations: SCOPUS

Citations: 343

Relevant publication: Yes

10

C. Pecharroman; J. S. Moya. Experimental evidence of a giant capacitance in insulator-conductor composites at the percolation threshold. *Advanced Materials*. 12 - 4, pp. 294 - 297.

2000. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Total no. authors: 2

Source of citations: SCOPUS

Citations: 295

Relevant publication: Yes

11

C. Pecharroman; I. Sobrados; J. E. Iglesias; T. Gonzalez-Carreno; J. Sanz. Thermal evolution of transitional aluminas followed by NMR and IR spectroscopies. *Journal of Physical Chemistry B*. 103 - 30, pp. 6160 - 6170. 1999. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Total no. authors: 5

Source of citations: SCOPUS

Citations: 190

Relevant publication: Yes

12

C. Pecharroman; T. Gonzalezcarreno; J. E. Iglesias. THE INFRARED DIELECTRIC-PROPERTIES OF MAGHEMITE, GAMMA-FE₂O₃, FROM REFLECTANCE MEASUREMENT ON PRESSED POWDERS. *Physics and Chemistry of Minerals*. 22 - 1, pp. 21 - 29. 1995.

Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Position of signature: 1

Total no. authors: 3

Source of citations: SCOPUS

Citations: 151

Relevant publication: Yes

13

0000-0003-2243-8452; 0000-0001-5132-1996; 0000-0003-2032-4144; Garbiec D.; Moya J.S.; 0000-0002-2222-3411; Pecharroman C.. Portland cement clinkers turned into garnets by spark plasma sintering. *Ceramics International*. 2022. ISSN 02728842



DOI: 10.1016/j.ceramint.2022.11.146

Type of production: Scientific paper

Format: Journal

- 14** Nascimento, Rodney Marcelo do; Rodrigues, Joao Elias F. S.; Favarin, Bruno Z.; Ramos, Ana P.; Ciancaglini, Pietro; Pecharroman, Carlos; Rahouadj, Rachid; Hernandez, Antonio Carlos; Bechtold, Ivan Helmuth. Thermal annealing of natural rubber films controls wettability and enhances cytocompatibility. SURFACES AND INTERFACES. 31, 2022. ISSN 2468-0230

DOI: 10.1016/j.surfin.2022.102048

Type of production: Scientific paper

- 15** Marcelo, Gema; Salardon, Noemi; Pecharroman, Carlos; Mendicuti, Francisco; Trabado, Isabel; Batanero, Belen. Tuneable fluorescence and structural colour in PNIPAM microgel assemblies. EUROPEAN POLYMER JOURNAL. 173, 2022. ISSN 0014-3057

DOI: 10.1016/j.eurpolymj.2022.111319

Type of production: Scientific paper

- 16** Pecharromán C.; Beltrán J.I.; Esteban-Betegón F.; López-Esteban S.; Bartolomé J.F.; Muñoz M.C.; Moya J.S.. Zirconia/nickel interfaces in micro- A nd nanocomposites. International Journal of Materials Research. 96, pp. 507 - 514. 2022. ISSN 18625282

DOI: 10.3139/ijmr-2005-0091

Type of production: Scientific paper

Format: Journal

- 17** Gema Marcelo; Maria del Mar Lopez-Gonzalez; Milena Vega; Carlos Pecharroman. Colored Surfaces Made of Synthetic Eumelanin. NANOMATERIALS. 11 - 9, 09/2021.

Type of production: Scientific paper

Format: Journal

- 18** Rodney Marcelo do Nascimento; Jean-Francois Schmitt; Udi Sarig; Joao Elias Figueiredo Soares Rodrigues; Carlos Pecharroman; Ana Paula Ramos; Pietro Ciancaglini; Fabricio Luiz Faita; Rachid Rahouadj; Antonio Carlos Hernandez; Ivan Helmuth Bechtold. Surface Wettability of a Natural Rubber Composite under Stretching: A Model to Predict Cell Survival. LANGMUIR. 37 - 15, pp. 4639 - 4646. 04/2021. ISSN 0743-7463

Type of production: Scientific paper

Format: Journal

- 19** S. Lopez-Esteban; B. Cabal; A. Borrell; J. F. Bartolome; A. Fernandez; M. Faraldos; A. Bahamonde; J. S. Moya; C. Pecharroman. Lead-free low-melting-point glass as bonding agent for TiO₂ nanoparticles. CERAMICS INTERNATIONAL. 47 - 5, pp. 6114 - 6120. 03/2021. ISSN 0272-8842

Type of production: Scientific paper

Format: Journal

- 20** J.E.F.S. Rodrigues; C.A. Escanhoela; B. Fragoso; G. Sombrio; M.M. Ferrer; C. Álvarez-Galván; M.T. Fernández-Díaz; J.A. Souza; F.F. Ferreira; C. Pecharromán; J.A. Alonso. Experimental and Theoretical Investigations on the Structural, Electronic, and Vibrational Properties of Cs₂AgSbCl₆ Double Perovskite. Industrial and Engineering Chemistry Research. 2021. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85114853350&doi=10.1021%2fac5.iecr.1c02188&partnerID=40&md5=2aa8ae34c204e41c31437ccce97a14b7>>.

Type of production: Scientific paper

Format: Journal

- 21** J.E.F.S. Rodrigues; M.M. Ferrer; M.L. Moreira; J.R. Sambrano; R.C. Costa; A.D. Rodrigues; P.S. Pizani; Y. Huttel; J.A. Alonso; C. Pecharromán. Unveiling the infrared complex dielectric function of ilmenite CdTiO₃. Journal of Alloys and Compounds. 813, 2020. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85072046196&doi=10.1016%2fj.jallcom.2019.152136&partnerID=40&md5=5375ac68dddea8838754550e7d4399>>.

Type of production: Scientific paper

Format: Journal



- 22** A. Roy; M. Morales; I. Israelashvili; A. Breskin; S. Bressler; D. Gonzalez-Diaz; C. Pecharromán; S. Shchemelinin; D. Vartsky; L. Arazi. First results of Resistive-Plate Well (RPWELL) detector operation at 163 K. *Journal of Instrumentation*. 14 - 10, pp. P10014 - P10014. IOP Publishing, 10/2019. Available on-line at: <https://doi.org/10.1088/1748-0221/14/10/P10014>.
- Type of production:** Scientific paper **Format:** Journal
- 23** W. Liu; J. Sanz; C. Pecharromán; I. Sobrados; S. Lopez-Esteban; R. Torrecillas; D.-Y. Wang; J.S. Moya; B. Cabal. Synthesis, characterization and applications of low temperature melting glasses belonging to $P_{2}O_{5}-CaO-Na_{2}O$ system. *Ceramics International*. 45 - 9, pp. 12234 - 12242. 2019. Available on-line at: <https://www.scopus.com/inward/record.uri?eid=2-s2.0-85063374574&doi=10.1016/j.ceramint.2019.03.133&partnerID=40&md5=2358446d8a3ef14f6d3a8afbfde01a>
- Type of production:** Scientific paper **Format:** Journal
- 24** Vega, Milena; Martin del Valle, Eva M.; Perez, Maximiliano; Pecharroman, Carlos; Marcelo, Gema. Color Engineering of Silicon Nitride Surfaces to Characterize the Polydopamine Refractive Index. *CHEMPHYSICHEM*. 19, ChemPubSoc Europe, 2018. ISSN 1439-4235
- DOI:** 10.1002/cphc.201800747
PMID: 30308115
- Type of production:** Scientific paper **Format:** Journal
- Position of signature:** 4
Total no. authors: 5
Impact source: ISI
Impact index in year of publication: 2.947
Position of publication: 62
- Corresponding author:** Yes
Category: Chemical Physics
Journal in the top 25%: No
No. of journals in the cat.: 146
- 25** Gaspar Armelles; Alfonso Cebollada; Fernando Garcia; Carlos Pecharroman. Magnetic modulation of mid-infrared plasmons using Giant Magnetoresistance. *Optics Express*. 25 - 16, pp. 18784 - 18796. 2017. Available on-line at: http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0
- DOI:** <https://doi.org/10.1364/OE.25.018784>
- Type of production:** Scientific paper **Format:** Journal
- Impact source:** ISI
Impact index in year of publication: 3.35
Position of publication: 19
- Category:** Optics
Journal in the top 25%: Yes
No. of journals in the cat.: 96
- 26** A. Smirnov; J.I. Beltrán; T. Rodriguez-Suarez; C. Pecharromán; M.C. Muñoz; J.S. Moya; J.F. Bartolomé. Unprecedented simultaneous enhancement in damage tolerance and fatigue resistance of zirconia/Ta composites. *Scientific Reports*. 7 - 21, pp. 44922. 2017. Available on-line at: <http://www.scopus.com/inward/record.url?eid=2-s2.0-85016018730&partnerID=MN8TOARS>.
- Type of production:** Scientific paper **Format:** Journal
- Impact source:** ISI
Impact index in year of publication: 4.259
Position of publication: 10
- Category:** Science Edition - MULTIDISCIPLINARY SCIENCES
Journal in the top 25%: Yes
No. of journals in the cat.: 64
- 27** D. Montesdeoca; F. Bayat; A. Espinha; Á. Blanco; C. Pecharromán; C. López. Monodisperse Silica Spheres Ensembles with Tailored Optical Resonances in the Visible. *Particle & Particle Systems Characterization*. 33 - 12, pp. 871 - 877. 2016. Available on-line at: <http://www.scopus.com/inward/record.url?eid=2-s2.0-84995595638&partnerID=MN8TOARS>.
- Type of production:** Scientific paper **Format:** Journal
- Impact source:** ISI



Impact index in year of publication: 4.474

Position of publication: 44

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

No. of journals in the cat.: 275

- 28** L.A. Díaz; W. Solís; P. Peretyagin; A. Fernández; M. Morales; C. Pecharromán; J.S. Moya; R. Torrecillas. Spark plasma sintered $\text{Si}_3\text{N}_4/\text{TiN}$ nanocomposites obtained by a colloidal processing route. *Journal of Nanomaterials*. 2016, pp. 3170142. 2016. Available on-line at: <http://www.scopus.com/inward/record.url?eid=2-s2.0-84961950227&partnerID=MN8TOARS>.

Type of production: Scientific paper

Format: Journal

- 29** L. Fernández-García; M. Suárez; J.L. Menéndez; C. Pecharromán; R. Torrecillas; P.Y. Peretyagin; J. Petzelt; M. Savinov; Z. Frait. Antiresonance in (Ni,Zn) ferrite-carbon nanofibres nanocomposites. *Materials Research Express*. 2 - 5, pp. 055003. 2015. Available on-line at: <http://www.scopus.com/inward/record.url?eid=2-s2.0-84953455639&partnerID=MN8TOARS>.

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: No

No. of journals in the cat.: 275

Impact index in year of publication: 0.968

Position of publication: 204

- 30** Carlos Pecharroman; Enrico Della Gaspera; Alessandro Martucci; Ramon Escobar-Galindod; Paul Mulvaney. Determination of the Optical Constants of Gold Nanoparticles from Thin-Film Spectra. *Journal of Physical Chemistry C*. 119 - 17, pp. 9450 - 9459. 2015. Available on-line at: http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - CHEMISTRY, PHYSICAL

Journal in the top 25%: Yes

No. of journals in the cat.: 144

Impact index in year of publication: 4.509

Position of publication: 30

- 31** Lucia Fernandez-Garcia; Marta Suarez; Jose Luis Menendez; Carlos Pecharroman; Rosa Menendez; Ricardo Santamaria. Dielectric behavior of ceramic-graphene composites around the percolation threshold. *Nanoscale research letters*. 10, pp. 216 - 216. 2015. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=MEDLINE&KeyUT=MEDLINE>

Type of production: Scientific paper

Format: Journal

- 32** J. L. Menendez; L. Fernandez-Garcia; C. Pecharroman; I. Montero; A. Esteban-Cubillo; P. Tiemblo; N. Garcia. Faraday activity in flexible maghemite/polymer matrix composites. *Optical Materials Express*. 5 - 9, pp. 1927 - 1933. 2015. Available on-line at: http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Atomic and Molecular Physics, and Optics

Journal in the top 25%: Yes

No. of journals in the cat.: 90

Impact index in year of publication: 2.657

Position of publication: 19

- 33** Mavial J. Da Silva; Jose S. Moya; Carlos Pecharroman; Jesus Sanz; Sonia Mello-Castanho. High barium content lead and alkaline-free glasses. *Materials Letters*. 136, pp. 345 - 348. 2014. Available on-line at: http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0



Type of production: Scientific paper

Format: Journal

34

M. Morales; C. Pecharroman; G. Mata-Osoro; L. A. Diaz; J. A. Garzon. Conductivity and charge depletion aging of resistive electrodes for high rate RPCs. Journal of Instrumentation. 8, 2013. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

35

Lucia Fernandez-Garcia; Marta Suarez; Jose Luis Menendez; Carlos Pecharroman; Dmitry Nuzhnyy; Viktor Bovtun; Maxim Savinov; Martin Kempa; Jan Petzelt. Dielectric properties of carbon nanofibre/alumina composites. Carbon. 57, pp. 380 - 387. 2013. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 6.160

Journal in the top 25%: Yes

Position of publication: 24

No. of journals in the cat.: 251

36

R. Pina-Zapardiel; A. Esteban-Cubillo; J. F. Bartolome; C. Pecharroman; J. S. Moya. High wear resistance white ceramic glaze containing needle like zircon single crystals by the addition of sepiolite n-ZrO₂. Journal of the European Ceramic Society. 33 - 15-16, pp. 3379 - 3385. 2013. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, CERAMICS

Impact index in year of publication: 2.307

Journal in the top 25%: Yes

Position of publication: 2

No. of journals in the cat.: 25

37

L. Esteban-Tejeda; A.C. Da Silva; S.R. Mello-Castanho; C. Pacharroman; J.S. Moya. Kinetics of dissolution of a biocide soda-lime glass powder containing silver nanoparticles. Journal Of Nanoparticle Research. 15 - 2, pp. 1447. 2013. Available on-line at: <<http://www.scopus.com/inward/record.url?eid=2-s2.0-84873338567&partnerID=MN8TOARS>>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 2.278

Journal in the top 25%: Yes

Position of publication: 59

No. of journals in the cat.: 251

38

L. Fernandez-Garcia; C. Pecharroman; A. Esteban-Cubillo; P. Tiemblo; N. Garcia; J. L. Menendez. Magneto-optical Faraday activity in transparent FeCo-sepiolite/polystyrene nanocomposites. Journal of Nanoparticle Research. 15 - 12, 2013. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 2.278

Journal in the top 25%: Yes

Position of publication: 59

No. of journals in the cat.: 251



39

I. Alvarez-Clemares; G. Mata-Osoro; A. Fernandez; S. Lopez-Esteban; C. Pecharroman; R. Torrecillas; J. S. Moya. Ceria doped alumina by Spark Plasma Sintering for optical applications. Journal of the European Ceramic Society. 32 - 11, pp. 2917 - 2924. 2012. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, CERAMICS

Impact index in year of publication: 2.36

Journal in the top 25%: Yes

Position of publication: 1

No. of journals in the cat.: 27

40

G. Mata-Osoro; J. S. Moya; M. Morales; L. A. Diaz; H. Schneider; C. Pecharroman. Faradaic current in different mullite materials: single crystal, ceramic and cermets. International Journal of Materials Research. 103 - 4, pp. 408 - 411. 2012. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

41

P. Tiemblo; E. Benito; N. Garcia; A. Esteban-Cubillo; R. Pina-Zapardiel; C. Pecharroman. Multiscale gold and silver plasmonic plastics by melt compounding. Rsc Advances. 2 - 3, pp. 915 - 919. 2012. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY

Impact index in year of publication: 2.562

Journal in the top 25%: No

Position of publication: 46

No. of journals in the cat.: 152

42

M. Stuer; P. Bowen; M. Cantoni; C. Pecharroman; Z. Zhao. Nanopore Characterization and Optical Modeling of Transparent Polycrystalline Alumina. Advanced Functional Materials. 22 - 11, pp. 2303 - 2309. 2012. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 9.756

Journal in the top 25%: Yes

Position of publication: 11

No. of journals in the cat.: 241

43

M. Palacios; P. Bowen; M. Kappl; H. J. Butt; M. Stuer; C. Pecharroman; U. Aschauer; F. Puertas. Repulsion forces of superplasticizers on ground granulated blast furnace slag in alkaline media, from AFM measurements to rheological properties. Materiales De Construccion. 62 - 308, pp. 489 - 513. 2012. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

44

G. Mata-Osoro; J. S. Moya; C. Pecharroman. Transparent alumina by vacuum sintering. Journal of the European Ceramic Society. 32 - 11, pp. 2925 - 2933. 2012. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, CERAMICS

Impact index in year of publication: 2.36

Journal in the top 25%: Yes

Position of publication: 1

No. of journals in the cat.: 27

45

J. S. Moya; C. Pecharroman; I. Montero; R. Pina-Zapardiel; A. Esteban-Cubillo; J. J. Reinoso; J. F. Fernandez. Fabrication of Nanostructured Metallized Glazes by Conventional Fast-Firing Route. *Journal of the American Ceramic Society*. 94 - 7, pp. 2067 - 2073. 2011. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, CERAMICS

Impact index in year of publication: 2.272

Journal in the top 25%: Yes

Position of publication: 2

No. of journals in the cat.: 25

46

J. S. Moya; L. Esteban-Tejeda; C. Pecharroman; S. R. H. Mello-Castanho; A. C. da Silva; F. Malpartida. Glass Powders with a High Content of Calcium Oxide: A Step Towards a "Green" Universal Biocide. *Advanced Engineering Materials*. 13 - 6, pp. B256 - B260. 2011. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 1.185

Journal in the top 25%: No

Position of publication: 112

No. of journals in the cat.: 232

47

R. Pina-Zapardiel; I. Montero; A. Esteban-Cubillo; J. S. Moya; W. D. Kaplan; T. Paramasivam; C. Pecharroman. Palladium nanoparticles on silica-rich substrates by spontaneous reduction at room temperature. *Journal of Nanoparticle Research*. 13 - 10, pp. 5239 - 5249. 2011. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 3.287

Journal in the top 25%: Yes

Position of publication: 38

No. of journals in the cat.: 323

48

J. Chevalier; P. Taddei; L. Gremillard; S. Deville; G. Fantozzi; J. F. Bartolome; C. Pecharroman; J. S. Moya; L. A. Diaz; R. Torrecillas; S. Affatato. Reliability assessment in advanced nanocomposite materials for orthopaedic applications. *Journal of the Mechanical Behavior of Biomedical Materials*. 4 - 3, pp. 303 - 314. 2011. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - ENGINEERING, BIOMEDICAL

Impact index in year of publication: 2.814

Position of publication: 15

No. of journals in the cat.: 72

49

C. Pecharroman; F. Esteban-Betegon; R. Jimenez. Electric Field Enhancement and Conduction Mechanisms in Ni/BaTiO₃ Percolative Composites. *Ferroelectrics*. 400, pp. 81 - 88. 2010. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal



50

S. Lopez-Esteban; C. F. Gutierrez-Gonzalez; G. Mata-Osoro; C. Pecharroman; L. A. Diaz; R. Torrecillas; J. S. Moya. Electrical discharge machining of ceramic/semiconductor/metal nanocomposites. Scripta Materialia. 63 - 2, pp. 219 - 222. 2010. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 2.82

Journal in the top 25%: Yes

Position of publication: 39

No. of journals in the cat.: 225

51

L. Esteban-Tejeda; F. Malpartida; C. Pecharroman; J. S. Moya. High Antibacterial and Antifungal Activity of Silver Monodispersed Nanoparticles Embedded in a Glassy Matrix. Advanced Engineering Materials. 12 - 7, pp. B292 - B297. 2010. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

52

A. Esteban-Cubillo; R. Pina-Zapardiel; J. S. Moya; C. Pecharroman. Stabilization of superparamagnetic nickel nanoparticles in a sepiolite matrix. Journal of Nanoparticle Research. 12 - 4, pp. 1221 - 1229. 2010. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 3.253

Journal in the top 25%: Yes

Position of publication: 35

No. of journals in the cat.: 225

53

I. Alvarez-Clemares; G. Mata-Osoro; A. Fernandez; S. Lopez-Esteban; C. Pecharroman; J. Palomares; R. Torrecillas; J. S. Moya. Transparent Alumina/Ceria Nanocomposites By Spark Plasma Sintering. Advanced Engineering Materials. 12 - 11, pp. 1154 - 1160. 2010. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

54

L. Esteban-Tejeda; F. Malpartida; A. Esteban-Cubillo; C. Pecharroman; J. S. Moya. Antibacterial and antifungal activity of a soda-lime glass containing copper nanoparticles. Nanotechnology. 20 - 50, 2009. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 3.137

Journal in the top 25%: Yes

Position of publication: 31

No. of journals in the cat.: 214

55

P. Jaquotot; A. Campillo; J. J. Reinoso; J. J. Romero; M. A. Bengochea; A. Esteban-Cubillo; J. Santaren; E. Aguilar; R. Pina; C. Pecharroman; J. S. Moya; J. F. Fernandez. Development of nanostructured multifunctional glazes. Boletin De La Sociedad Espanola De Ceramica Y Vidrio. 48 - 2, pp. 95 - 98. 2009. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal



56

C. Pecharroman. Influence of the close sphere interaction on the surface plasmon resonance absorption peak. *Physical Chemistry Chemical Physics*. 11 - 28, pp. 5922 - 5929. 2009. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - CHEMISTRY, PHYSICAL

Impact index in year of publication: 4.116

Position of publication: 24

No. of journals in the cat.: 121

57

C. Pecharroman; G. Mata-Osoro; L. A. Diaz; R. Torrecillas; J. S. Moya. On the transparency of nanostructured alumina: Rayleigh-Gans model for anisotropic spheres. *Optics Express*. 17 - 8, pp. 6899 - 6912. 2009. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - OPTICS

Impact index in year of publication: 3.278

Position of publication: 3

No. of journals in the cat.: 71

58

T. Rodriguez-Suarez; S. Lopez-Esteban; C. Pecharroman; J. S. Moya; H. El Attaoui; C. Benaqqa; J. Chevalier. Slow crack growth resistance and bridging stress determination in alumina-rich magnesium aluminate spinel/tungsten composites. *Acta Materialia*. 57 - 7, pp. 2121 - 2127. 2009. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 3.760

Position of publication: 27

Journal in the top 25%: Yes

No. of journals in the cat.: 214

59

C. Pecharroman; A. Esteban-Cubillo; H. Fernandez; L. Esteban-Tejeda; R. Pina-Zapardiel; J. S. Moya; J. Solis; C. N. Afonso. Synthesis, Conforming, Linear, and Non-linear Optical Properties of Gold Nanoparticles-sepiolite Compacts. *Plasmonics*. 4 - 4, pp. 261 - 266. 2009. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 3.723

Position of publication: 28

Journal in the top 25%: Yes

No. of journals in the cat.: 214

60

L. Esteban-Tejeda; F. Malpartida; A. Esteban-Cubillo; C. Pecharroman; J. S. Moya. The antibacterial and antifungal activity of a soda-lime glass containing silver nanoparticles. *Nanotechnology*. 20 - 8, 2009. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 3.137

Position of publication: 31

Journal in the top 25%: Yes

No. of journals in the cat.: 214



61

D. Gonzalez-Diaz; M. Morales; L. F. Ferreira; J. A. Garzon; D. Gonzalez-Castano; C. Pecharroman. The role of the Resistive Plate response function in bringing an RPC to a stationary situation. Nuclear Instruments & Methods in Physics Research Section a-Accelerators Spectrometers Detectors and Associated Equipment. 602 - 3, pp. 713 - 718. 2009. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper**Format:** Journal

62

T. Rodriguez-Suarez; L. A. Diaz; S. Lopez-Esteban; C. Pecharroman; A. Esteban-Cubillo; L. Gremillard; R. Torrecillas; J. S. Moya. Epitaxial growth of tungsten nanoparticles on alumina and spinel surfaces. Nanotechnology. 19 - 21, 2008. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper**Format:** Journal**Impact source:** ISI**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY**Impact index in year of publication:** 3.446**Position of publication:** 25**No. of journals in the cat.:** 192

63

J. F. Bartolome; J. I. Beltran; C. F. Gutierrez-Gonzalez; C. Pecharroman; M. C. Munoz; J. S. Moya. Influence of ceramic-metal interface adhesion on crack growth resistance of ZrO₂-Nb ceramic matrix composites. Acta Materialia. 56 - 14, pp. 3358 - 3366. 2008. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper**Format:** Journal**Impact source:** ISI**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY**Impact index in year of publication:** 3.729**Position of publication:** 20**Journal in the top 25%:** Yes**No. of journals in the cat.:** 192

64

A. Beran; E. Libowitzky; M. Burianek; M. Muhlberg; C. Pecharroman; H. Schneider. Infrared and Raman spectroscopy of mullite-type Bi₂Ga₄O₉. Crystal Research and Technology. 43 - 11, pp. 1230 - 1239. 2008. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper**Format:** Journal

65

A. Esteban-Cubillo; J. F. Marco; J. S. Moya; C. Pecharroman. On the nature and location of nanoparticulate iron phases and their precursors synthesized within a sepiolite matrix. Journal of Physical Chemistry C. 112 - 8, pp. 2864 - 2871. 2008. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper**Format:** Journal**Impact source:** ISI**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY**Impact index in year of publication:** 3.396**Position of publication:** 26**Journal in the top 25%:** Yes**No. of journals in the cat.:** 192

66

C. Pecharroman; J. Perez-Juste; G. Mata-Osoro; L. M. Liz-Marzan; P. Mulvaney. Redshift of surface plasmon modes of small gold rods due to their atomic roughness and end-cap geometry. Physical Review B. 77 - 3, 2008. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper**Format:** Journal**Impact source:** ISI**Category:** Science Edition - PHYSICS, CONDENSED MATTER**Impact index in year of publication:** 3.322**Journal in the top 25%:** Yes

Position of publication: 10

No. of journals in the cat.: 62

67

A. Esteban-Cubillo; R. Pina-Zapardiel; J. S. Moya; M. F. Barba; C. Pecharroman. The role of magnesium on the stability of crystalline sepiolite structure. *Journal of the European Ceramic Society*. 28 - 9, pp. 1763 - 1768. 2008. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, CERAMICS

Impact index in year of publication: 1.58

Journal in the top 25%: Yes

Position of publication: 2

No. of journals in the cat.: 24

68

A. Morales-Rodriguez; D. Gomez-Garcia; T. Rodriguez-Suarez; S. Lopez-Esteban; C. Pecharroman; J. S. Moya; A. Dominguez-Rodriguez. Anomalous high activation energy for creep in nanostructured 3YTZP/Ni cermets. *Journal of the European Ceramic Society*. 27 - 11, pp. 3295 - 3299. 2007. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, CERAMICS

Impact index in year of publication: 1.562

Journal in the top 25%: Yes

Position of publication: 2

No. of journals in the cat.: 25

69

J. S. Moya; T. Rodriguez-Suarez; S. Lopez-Esteban; C. Pecharroman; R. Torrecillas; L. A. Diaz; M. Nygren. Diamond-like hardening of alumina/Ni nanocomposites. *Advanced Engineering Materials*. 9 - 10, pp. 898 - 901. 2007. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

70

A. Esteban-Cubillo; J. M. Tulliani; C. Pecharroman; J. S. Moya. Iron-oxide nanoparticles supported on sepiolite as a novel humidity sensor. *Journal of the European Ceramic Society*. 27 - 4, pp. 1983 - 1989. 2007. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, CERAMICS

Impact index in year of publication: 1.562

Journal in the top 25%: Yes

Position of publication: 2

No. of journals in the cat.: 25

71

C. Pecharroman; A. Esteban-Cubillo; R. Torrecillas; J. S. Moya. Micro/nano composites: a simple and safe way to fabricate nanomaterials. *International Journal of Nanotechnology*. 4 - 3, pp. 282 - 297. 2007. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

72

J. E. Iglesias; C. Pecharroman. Scaling the h-index for different scientific ISI fields. *Scientometrics*. 73 - 3, pp. 303 - 320. 2007. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - COMPUTER SCIENCE, INTERDISCIPLINARY APPLICATIONS



Impact index in year of publication: 1.472
Position of publication: 24

Journal in the top 25%: No
No. of journals in the cat.: 92

73

J. F. Bartolome; C. F. Gutierrez-Gonzalez; C. Pecharroman; J. S. Moya. Synergistic toughening mechanism in 3Y-TZP/Nb composites. *Acta Materialia*. 55 - 17, pp. 5924 - 5933. 2007. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 3.624

Journal in the top 25%: Yes

Position of publication: 19

No. of journals in the cat.: 190

74

F. Pico; C. Pecharroman; A. Anson; M. T. Martinez; J. M. Rojo. Understanding carbon-carbon composites as electrodes of supercapacitors - A study by AC and DC measurements. *Journal of the Electrochemical Society*. 154 - 6, pp. A579 - A586. 2007. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, COATINGS & FILMS

Impact index in year of publication: 2.483

Journal in the top 25%: Yes

Position of publication: 1

No. of journals in the cat.: 18

75

M. Ocana; C. Pecharroman; F. Gracia; J. P. Holgado; A. R. Gonzalez-Elipse. Analysis of texture and microstructure of anatase thin films by Fourier transform infrared spectroscopy. *Thin Solid Films*. 515 - 4, pp. 1585 - 1591. 2006. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

76

A. Esteban-Cubillo; C. Pecharroman; E. Aguilar; J. Santaren; J. S. Moya. Antibacterial activity of copper monodispersed nanoparticles into sepiolite. *Journal of Materials Science*. 41 - 16, pp. 5208 - 5212. 2006. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

77

C. Pecharroman; F. J. Gordillo-Vazquez. Expansion of the spectral representation function of a composite material in a basis of Legendre polynomials: Experimental determination and analytic approximations. *Physical Review B*. 74 - 3, 2006. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

78

S. R. H. Mello-Castanho; A. C. Da Silva; A. Esteban-Cubillo; C. Pecharroman; J. S. Moya. Glass silicate from Cr and Ni high level galvanic waste. *Boletín De La Sociedad Española De Cerámica Y Vidrio*. 45 - 1, pp. 52 - 57. 2006. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

79

S. Lopez-Esteban; T. Rodriguez-Suarez; F. Esteban-Betegon; C. Pecharroman; J. S. Moya. Mechanical properties and interfaces of zirconia/nickel in micro- and nanocomposites. *Journal of Materials Science*. 41 - 16, pp. 5194 - 5199. 2006. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal



80

F. Esteban-Betegon; S. Lopez-Esteban; J. Requena; C. Pecharroman; J. S. Moya; J. C. Conesa. Obtaining Ni nanoparticles on 3Y-TZP powder from nickel salts. *Journal of the American Ceramic Society*. 89 - 1, pp. 144 - 150. 2006. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

81

J. F. Bartolome; C. Pecharroman; J. S. Moya; A. Martin; J. Y. Pastor; J. Llorca. Percolative mechanism of sliding wear in alumina/zirconia composites. *Journal of the European Ceramic Society*. 26 - 13, pp. 2619 - 2625. 2006. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

82

F. Pico; J. Ibanez; T. A. Centeno; C. Pecharroman; R. M. Rojas; J. M. Amarilla; J. M. Rojo. RuO₂ center dot xH(2)O/NiO composites as electrodes for electrochemical capacitors - Effect of the RuO₂ content and the thermal treatment on the specific capacitance. *Electrochimica Acta*. 51 - 22, pp. 4693 - 4700. 2006. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

83

A. Esteban-Cubillo; C. Diaz; A. Fernandez; L. A. Diaz; C. Pecharroman; R. Torrecillas; J. S. Moya. Silver nanoparticles supported on alpha-, eta- and delta-alumina. *Journal of the European Ceramic Society*. 26 - 1-2, pp. 1 - 7. 2006. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

84

J. Chevalier; S. Deville; G. Fantozzi; J. F. Bartolome; C. Pecharroman; J. S. Moya; L. A. Diaz; R. Torrecillas. Nanostructured ceramic oxides with a slow crack growth resistance close to covalent materials. *Nano Letters*. 5 - 7, pp. 1297 - 1301. 2005. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

85

M. Diaz; C. Pecharroman; F. del Monte; J. Sanz; J. E. Iglesias; J. S. Moya; C. Yamagata; S. Mello-Castanho. Synthesis, thermal evolution, and luminescence properties of yttrium disilicate host matrix. *Chemistry of Materials*. 17 - 7, pp. 1774 - 1782. 2005. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

86

C. Pecharroman; J. I. Beltran; F. Esteban-Betegon; S. Lopez-Esteban; J. F. Bartolome; M. C. Munoz; J. S. Moya. Zirconia/nickel interfaces in micro- and nanocomposites. *Zeitschrift Fur Metallkunde*. 96 - 5, pp. 507 - 514. 2005. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

87

C. Pecharroman; A. Cuesta; C. Gutierrez. Calculation of adsorption-induced differential external reflectance infrared spectra of particulate metals deposited on a substrate. *Journal of Electroanalytical Chemistry*. 563 - 1, pp. 91 - 109. 2004. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

88

C. Pecharroman; F. Esteban-Betegon; J. F. Bartolome; G. Richter; J. S. Moya. Theoretical model of hardening in zirconia-nickel nanoparticle composites. *Nano Letters*. 4 - 4, pp. 747 - 751. 2004. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>



Type of production: Scientific paper

Format: Journal

- 89** F. J. Gordillo-Vazquez. An effective-medium approach to the optical properties of heterogeneous materials with nonlinear properties. *Journal of Modern Optics*. 50 - 1, pp. 113 - 135.

2003. Available on-line at: <[http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS:0](http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0)

Type of production: Scientific paper

Format: Journal

- 90** C. Pecharroman; F. Gracia; J. P. Holgado; M. Ocana; A. R. Gonzalez-Elipe; J. Bassas; J. Santiso; A. Figueras. Determination of texture by infrared spectroscopy in titanium oxide-anatase thin films. *Journal of Applied Physics*. 93 - 8, pp. 4634 - 4645. 2003. Available on-line at: <[http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS:0](http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0)

Type of production: Scientific paper

Format: Journal

- 91** C. Pecharroman; F. J. Gordillo-Vazquez. Optical properties of binary composite materials with two nonlinear components. *Journal of Modern Optics*. 50 - 12, pp. 1857 - 1871.

2003. Available on-line at: <[http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS:0](http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0)

Type of production: Scientific paper

Format: Journal

- 92** C. Pecharroman; A. Cuesta; C. Gutierrez. Comments on the paper by M.-S. Zheng and S.-G. Sun entitled 'In situ FTIR spectroscopic studies of CO adsorption on electrodes with nanometer-scale thin films of ruthenium in sulfuric acid solutions' *J. Electroanal. Chem.* 500 (2001) 223. *Journal of Electroanalytical Chemistry*. 529 - 2, pp. 145 - 154. 2002. Available on-line at: <[http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS:0](http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0)

Type of production: Scientific paper

Format: Journal

- 93** R. Jimenez; F. Esteban-Betegon; C. Pecharroman; J. S. Moya; C. Alemany. Dielectric and ferroelectric properties of BaTiO₃/Ni cermets under high electric fields. *Ferroelectrics*. 268, pp. 387 - 392. 2002. Available on-line at: <[http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS:0](http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0)

Type of production: Scientific paper

Format: Journal

- 94** J. H. Dickerson; E. E. Mendez; A. A. Allerman; S. Manotas; F. Agullo-Rueda; C. Pecharroman. Electric field enhancement of the Rabi splitting in a superlattice-microcavity system. *Physica E-Low-Dimensional Systems & Nanostructures*. 13 - 2-4, pp. 398 - 402.

2002. Available on-line at: <[http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS:0](http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0)

Type of production: Scientific paper

Format: Journal

- 95** J. S. Moya; S. Lopez-Esteban; C. Pecharroman; J. F. Bartolome. Mechanically stable monoclinic zirconia-nickel composite. *Journal of the American Ceramic Society*. 85 - 8, pp. 2119 - 2121.

2002. Available on-line at: <[http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS:0](http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0)

Type of production: Scientific paper

Format: Journal

- 96** S. Lopez-Esteban; J. F. Bartolome; C. Pecharroman; J. S. Moya. Zirconia/stainless-steel continuous functionally graded material. *Journal of the European Ceramic Society*. 22 - 16, pp. 2799 - 2804. 2002. Available on-line at: <[http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS:0](http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0)

Type of production: Scientific paper

Format: Journal

97

J. H. Dickerson; E. E. Mendez; A. A. Allerman; S. Manotas; F. Agullo-Rueda; C. Pecharroman. Enhancement of Rabi splitting in a microcavity with an embedded superlattice. *Physical Review B*. 64 - 15, 2001. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

98

C. Pecharroman; S. Lopez-Esteban; J. F. Bartolome; J. S. Moya. Evidence of nearest-neighbor ordering in wet-processed zirconia-nickel composites. *Journal of the American Ceramic Society*. 84 - 10, pp. 2439 - 2441. 2001. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

99

J. Ibanez; C. Pecharroman; R. Jimenez; P. Duran-Martin; M. G. Lazarraga; J. M. Rojo. Microstructure and ionic conductivity of LiSn₂P₃O₁₂-Teflon composites. *Journal of the Electrochemical Society*. 148 - 7, pp. J31 - J37. 2001. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

100

C. Pecharroman; J. K. Son; I. W. Tao; E. E. Mendez. Photoluminescence excitation spectroscopy of semiconductor microcavities. *Physical Review B*. 64 - 24, 2001. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

101

C. Pecharroman; J. E. Iglesias. Effect of particle shape on the IR reflectance spectra of pressed powders of anisotropic materials. *Applied Spectroscopy*. 54 - 4, pp. 634 - 638. 2000. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

102

C. Pecharroman; J. M. Amarilla. Thermal evolution of infrared vibrational properties of Li₄/3Ti₅/3O₄ measured by specular reflectance. *Physical Review B*. 62 - 18, pp. 12062 - 12068. 2000. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

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A. Martinez-Juarez; C. Pecharroman; J. E. Iglesias; J. M. Rojo. Relationship between activation energy and bottleneck size for Li⁺ ion conduction in NASICON materials of composition Li_{1-x}M_x(PO₄)₃; M, M' = Ge, Ti, Sn, Hf. *Journal of Physical Chemistry B*. 102 - 2, pp. 372 - 375. 1998. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

104

J. E. Iglesias; C. Pecharroman. Room temperature triclinic modification of NASICON-type LiZr₂(PO₄)₃. *Solid State Ionics*. 112 - 3-4, pp. 309 - 318. 1998. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal

105

I. W. Tao; J. K. Son; C. Pecharroman; E. E. Mendez; R. Ruf. Signatures of exciton-cavity coupling in semiconductor microcavities. *Physica E*. 2 - 1-4, pp. 685 - 688. 1998. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific paper

Format: Journal



106

V. M. Orera; C. Pecharroman; J. I. Pena; R. I. Merino; C. J. Serna. Vibrational spectroscopy of CaZrO₃ single crystals. *Journal of Physics-Condensed Matter*. 10 - 33, pp. 7501 - 7510. 1998. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:A>

Type of production: Scientific paper

Format: Journal

107

C. Pecharroman; J. E. Iglesias. Modeling particle size and clumping effects in the IR absorbance spectra of dilute powders. *Applied Spectroscopy*. 50 - 12, pp. 1553 - 1562. 1996. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:A>

Type of production: Scientific paper

Format: Journal

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U. Buchenau; C. Pecharroman; R. Zorn; B. Frick. Neutron scattering evidence for localized soft modes in amorphous polymers. *Physical Review Letters*. 77 - 4, pp. 659 - 662. 1996. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:A>

Type of production: Scientific paper

Format: Journal

109

C. Pecharroman; M. Ocana; C. J. Serna. Optical constants of tetragonal and cubic zirconias in the infrared. *Journal of Applied Physics*. 80 - 6, pp. 3479 - 3483. 1996. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:A>

Type of production: Scientific paper

Format: Journal

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C. Pecharroman; T. GonzalezCarreno; J. E. Iglesias. The infrared dielectric properties of eta-Al₂O₃. *Journal of Materials Research*. 11 - 1, pp. 127 - 133. 1996. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:A>

Type of production: Scientific paper

Format: Journal

111

C. Pecharroman; J. E. Iglesias. A METHOD FOR THE DETERMINATION OF INFRARED OPTICAL-CONSTANTS FROM REFLECTANCE MEASUREMENTS ON POWDERED SAMPLES. *Journal of Physics-Condensed Matter*. 6 - 35, pp. 7125 - 7141. 1994. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:A>

Type of production: Scientific paper

Format: Journal

112

C. Pecharroman; J. E. Iglesias. EFFECTIVE DIELECTRIC-PROPERTIES OF PACKED MIXTURES OF INSULATOR PARTICLES. *Physical Review B*. 49 - 11, pp. 7137 - 7147. 1994. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:A>

Type of production: Scientific paper

Format: Journal

113

C. Pecharroman; M. Ocana; P. Tartaj; C. J. Serna. INFRARED OPTICAL-PROPERTIES OF ZIRCON. *Materials Research Bulletin*. 29 - 4, pp. 417 - 426. 1994. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:A>

Type of production: Scientific paper

Format: Journal

114

M. P. Morales; C. Pecharroman; T. G. Carreno; C. J. Serna. STRUCTURAL CHARACTERISTICS OF UNIFORM GAMMA-FE₂O₃ PARTICLES WITH DIFFERENT AXIAL (LENGTH/WIDTH) RATIOS. *Journal of Solid State Chemistry*. 108 - 1, pp. 158 - 163. 1994. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:A>



Type of production: Scientific paper

Format: Journal

- 115** C. Pecharroman; T. G. Carreno; J. E. Iglesias. AVERAGE DIELECTRIC-CONSTANT OF COATED SPHERES - APPLICATION TO THE IR-ABSORPTION-SPECTRA OF NIO AND MGO. Applied Spectroscopy. 47 - 8, pp. 1203 - 1208. 1993. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:A>

Type of production: Scientific paper

Format: Journal

- 116** Carlos Pecharromán García. Field distribution near optical antennas at the subnanometric scale. Optical Antennas. Cambridge University Press, 2013.

Type of production: Book chapter

Format: Book

Corresponding author: Yes

- 117** J. E. Iglesias; C. Pecharroman. Comparing h-indices for scientists in different ISI fields. Proceedings of ISSI 2007: 11th International Conference of the International Society for Scientometrics and Informetrics, Vols I and II. pp. 862 - 863. 2007. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:0>

Type of production: Scientific book or monograph

Format: Book

Works submitted to national or international conferences

- 1** **Title of the work:** Assessment of a Sepiolite-Titania Hybrid Catalyst for its Application in the Photocatalytic Degradation of Pesticides
Name of the conference: 11th European Conference on Solar chemistry and Photocatalysis: Environmental Applications (SPEA11).
Corresponding author: No
City of event: Turin, Italy
Date of event: 06/06/2022
S. Lopez-Esteban; C. Pecharroman; A. Esteban-Cubillo; D. Hermosilla; A. Gasco; A. Bahamonde.
- 2** **Title of the work:** Eficiencia de las nanopartículas de TiO₂ dispersadas e inmovilizadas en sepiolita y vidrio de bajo punto de fusión en la degradación de pesticidas.
Name of the conference: Reunión Bienal de la Sociedad Española de Catálisis (SECAT21)
Corresponding author: No
City of event: Valencia, Spain
Date of event: 18/10/2021
B. Villajos; S. López-Esteban; S. Mesa-Medina; C. Pecharromán; K. Jiménez; D. Hermosilla; A. Gascó; M. Faraldos; A. Bahamonde.
- 3** **Title of the work:** CARACTERIZACIÓN DE COMPUESTOS TiO₂ NANOPARTICULADO/VIDRIO DE BAJO PUNTO DE FUSIÓN
Name of the conference: LVII Congreso Nacional de la SECV
Corresponding author: No
City of event: Castellón, Spain
Date of event: 26/10/2020
S. Lopez-Esteban; B. Cabal; A. Borrell; J.F. Bartolomé; A. Fernandez; M. Faraldos; A. Bahamonde; J.S. Moya; C. Pecharroman.
- 4** **Title of the work:** Additive manufacturing of ceramic/low temperaturemelting glass (~500°C) composite materials.
Name of the conference: Spain Chapter of the American Ceramic Society



Corresponding author: No

City of event: Castellón, Valencian Community, Spain

Date of event: 20/02/2020

End date: 20/02/2020

Organising entity: Instituto de Tecnología Cerámica

José Serafín Moya Corral; Álvaro Gil; Carlos Pecharromás García; Adolfo Fernández Valdés; Sonia López Esteban; María Belén Cabal Alvarez.

- 5** **Title of the work:** Self-assembled disorder in photonic materials
Name of the conference: META'16 Lugar Torremolinos España
Corresponding author: Yes
Date of event: 07/2016
Alvaro Blanco; Denise Montesdeoca; Cefe Lopez; Jose Angel Pariente; Carlos Pecharroman.
- 6** **Title of the work:** Tunable Negative Nano Composites for Low Frequency Metamaterials
Name of the conference: META'16 Lugar Torremolinos España
Date of event: 07/2016
Carlos Pecharroman; Lucia Fernandez; Miguel Morales; Celia Mallada; Jose Luis Menendez.
- 7** **Title of the work:** Magnetoimpedancia en composites granate de itrio y hierro/grafeno
Name of the conference: XIV CONGRESO NACIONAL DE MATERIALES
Corresponding author: No
City of event: Gijón, Spain
Date of event: 08/06/2016
C.Mallada; J.L.Menédez; M.Morales; C.Pecharromás; R. Menéndez; R.Santamaría.
- 8** **Title of the work:** Metal-dielectric microstructures with directionally solidified eutectics as templates
Name of the conference: The 6th International Conference on Metamaterials, Photonic Crystals and Plasmonics (META 2015)
Corresponding author: No
City of event: New York, United States of America
Date of event: 04/08/2015
S.G. Rodrigo; C. Pecharromás; L. Martín-Moreno; J. Sesé; R.I. Merino.
- 9** **Title of the work:** High dielectric constant in Barium titanate-graphene composites around the percolation threshold
Name of the conference: 14th International Conference of the European Ceramic Society
Corresponding author: No
City of event: Toledo, Spain
Date of event: 22/06/2015
Organising entity: European Ceramic Society
J. L. Menéndez; C. Pecharromás; R. Menéndez; R. Santamaría; C. Blanco.
- 10** **Title of the work:** Magnetically Tunable Composites Exhibiting a Pseudo Plasmonic Resonance
Name of the conference: ETOPIIM 10 Lugar Yad Hashmona, Israel
Corresponding author: Yes
Date of event: 21/06/2015
Carlos Pecharromás; Gustavo Mata-Osoro; José S. Moya.



- 11 Title of the work:** Tuning the dielectric constant in ferrite-carbon nanofibres composites
Name of the conference: Energy, Materials, Nanotechnology Ceramics Meeting
Corresponding author: No
City of event: United States of America
Date of event: 26/01/2015
Lucía Fernández-García; Marta Suárez; José Luis Menéndez; Carlos Pecharromán; Jan Petzelt; Maxim Savinov.
- 12 Title of the work:** Conductivity and dielectric response of carbon based composites in a broad frequency range
Name of the conference: 19TH INTERNATIONAL CONFERENCE ON COMPOSITE MATERIALS
Corresponding author: No
City of event: Paris, France
Date of event: 28/07/2013
D. Nuzhnyy; J. Petzelt; M. Savinov; V. Bovtun; M. Kempa; B. Mayoral; T. McNally; L. Fernandez-Garcia; J. L. Menendez; C. Pecharroman.
- 13 Title of the work:** broad-Band AC Conductivity and Dielectric Spectroscopy of Nanocarbon Composites Around Their Percolation Threshold
Name of the conference: COST ACTION MP0902 Composites of inorganic nanotubes and polymers, Workshop of all working groups
Corresponding author: No
Date of event: 20/03/2013
M. Savinov; D. Nuzhnyy; V. Bovtun; M. Kempa; J. Petzelt; B. Mayoral; T. McNally; L. Fernandez-Garcia; J. L. Menendez; C. Pecharroman.
- 14 Title of the work:** Interaction between Conjugated Polymers and Gold Nanoparticles in Hierarchical Hybrids
Name of the conference: 7th International Conference on Nanostructured Polymers and Nanocomposites
City of event: Czech Republic
Date of event: 24/04/2012
N. García; J. Guzmán; C. Pecharromán; P. Tiemblo.
- 15 Title of the work:** Critical processing in the microstructure and dc conductivity of carbon nanofibers-alumina nanocomposites
Name of the conference: Cost Action MP0209: Composites of inorganic nanotubes and polymers
Corresponding author: No
City of event: Praga, Czech Republic
Date of event: 17/04/2012
L Fernández García; M. Suarez; C. Pecharromán; J.L Menéndez; J. Petzelt; M. Savinov.
- 16 Title of the work:** Understanding the ageing process in RPC's from an ion conductivity approach.
Name of the conference: X Workshop on Resistive Plate Chambers and related Detectors Lugar GSI Darmstadt, Alemania
Date of event: 09/02/2012
C. Pecharromán; M. Morales; G. Mata-Osoro; L. A. Díaz; V. Valcárcel; J. A. Garzón.
- 17 Title of the work:** Microstructure and dielectric behaviour of carbon nanofibers-alumina
Name of the conference: 8th International Workshop on Interfaces at the boundary between natural and synthetic materials
Corresponding author: No
City of event: Santiago de Compostela, Spain
Date of event: 26/06/2011



Organising entity: Universidad de Santiago de Compostela

Type of entity: University

L. Fernández-García; M. Suarez; C. Pecharroman; J.L. Menendez; J. Petzelt; M. Savinov.

- 18 Title of the work:** Multiscale gold and silver plasmonic plastics by melt compounding
Name of the conference: European Polymer Congress 2011
Date of event: 26/06/2011
N. García; P. Tiemblo; E. Benito; A. Esteban; R. Pina; Carlos Pecharromán García.
- 19 Title of the work:** Modelling of transparent ceramics
Name of the conference: ECERS 2011 Lugar Estocolmo, Suecia
Date of event: 21/06/2011
Carlos Pecharromán; Gustavo Mata-Osoro; José S. Moya.
- 20 Title of the work:** Giant magneto-optical/faraday. Effect in flexible non-magnetic/ plasmonic polymer matrix composites
Name of the conference: INTERNATIONAL WORKSHOP ON NANOPLASMONICS FOR ENERGY AND ENVIROMENT
Corresponding author: Yes
City of event: Spain
Date of event: 08/06/2011
Menéndez, J.L.; García, N.; Tiemblo, P.; Pina, R.; Esteban, A.; Fernández-García, L.; Mata-Osoro, G; Pecharromán, C.
- 21 Title of the work:** Understanding the ageing process in RPCs from an ion conductivity approach
Name of the conference: X Workshop on Resistive Plate Chambers and related detectors
Corresponding author: Yes
City of event: Darmstadt, Germany
Date of event: 09/02/2010
C. Pecharromán; M. Morales; G. Mata-Osoro; L.A. Díaz; V. Valcárcel; J. A. Garzón.
- 22 Title of the work:** “Estudio del crecimiento por coalescencia del grano de Ni en composites BaTiO₃/Ni y su efecto en las propiedades eléctricas y mecánicas”
Name of the conference: VII Congreso Nacional de Materiales
City of event: Madrid, Spain
Date of event: 2010
F. Esteban-Betegón; R. Jiménez-Riobóo; J.S. Moya; C. Pecharromán.
- 23 Title of the work:** “Preparación y estudio de las propiedades mecánicas en compuestos 3Y-TZP/Ni con partículas de Ni de tamaño micro y nanométrico”
Name of the conference: VII Congreso Nacional de Materiales
City of event: Madrid, Spain
Date of event: 2010
C. Pecharromán; F. Esteban-Betegón; J. F. Bartolomé; R. Jiménez-Riobóo; J.S. Moya.
- 24 Title of the work:** Superhardness in ceramic-metal nanocomposites
Name of the conference: NanoSMat 2009. 4th International Conference on Surfaces, Coatings and Nanostructured Materials.
Corresponding author: No
City of event: Roma, Italy
Date of event: 19/10/2009



S. Lopez-Esteban; T. Rodriguez-Suarez; L.A. Diaz; C. Pecharroman; R. Torrecillas; J.S. Moya.

- 25** **Title of the work:** Superhardness in ceramic-metal nanocomposites
Name of the conference: Euromat 2009. European Congress and Exhibition on Advanced Materials and Processes. Federation of European Materials Societies
Corresponding author: No
City of event: Glasgow, United Kingdom
Date of event: 07/09/2009
S. Lopez-Esteban; T. Rodriguez-Suarez; L.A. Diaz; C. Pecharroman; R. Torrecillas; J.S. Moya.
- 26** **Title of the work:** “Dielectric and Ferroelectric Properties of BaTiO₃/Ni cermets under high electric fields”
Name of the conference: 10^o International Meeting on Ferroelectricity
City of event: Madrid, Spain
Date of event: 03/07/2009
R. Jiménez; F. Esteban-Betegón; C. Pecharromán; J.S. Moya.
- 27** **Title of the work:** Ceramic-metal nanocomposites
Name of the conference: IPEN 2008
Corresponding author: No
City of event: Sao Paulo, Brazil
Date of event: 05/12/2008
J. S. Moya; T. Rodriguez-Suarez; S. Lopez-Esteban; C. Pecharroman.
- 28** **Title of the work:** Materiales compuestos nanoestructurados cerámica/semiconductor/metal
Name of the conference: XLVIII Congreso Anual de la Sociedad Española de Cerámica y Vidrio
Corresponding author: No
City of event: Toledo, Spain
Date of event: 29/10/2008
Organising entity: Sociedad Española de Cerámica y Vidrio
S. Lopez-Esteban; C.F. Gutierrez-Gonzalez; L.A. Diaz; G. Mata-Osoro; C. Pecharroman; R.Torrecillas; J.S. Moya.
- 29** **Title of the work:** Ceramic-metal nanocomposites
Name of the conference: Seventh International Conference on Diffusion in Materials; DIMAT 2008
Corresponding author: No
City of event: Lanzarote, Spain
Date of event: 28/10/2008
J. S. Moya; T. Rodriguez-Suarez; S. Lopez-Esteban; C. Pecharroman.
- 30** **Title of the work:** Hardening effect of metal nanoparticles in ceramic-matrix composites
Name of the conference: Trends in Nanotechnology Conference; TNT2008
Corresponding author: No
City of event: Oviedo, Spain
Date of event: 01/09/2008
T. Rodriguez-Suarez; S. Lopez-Esteban; C. Pecharroman; L.A. Diaz; R. Torrecillas.
- 31** **Title of the work:** Zirconia/nickel/titanium carbide nanocomposites for electro discharge machining
Name of the conference: 7th International Workshop on Interfaces. New materials via interfacial control.
Corresponding author: No
City of event: Santiago de Compostela, Spain
Date of event: 22/06/2008



Organising entity: Universidad de Santiago de Compostela

Type of entity: University

S. Lopez-Esteban; C.F. Gutierrez-Gonzalez; L.A. Diaz; G. Mata-Osoro; C. Pecharroman; R. Torrecillas; J.S. Moya.

32 Title of the work: "Zirconia/Nickel Interfaces in Micro- and Nanocomposites"

Name of the conference: EuroConference on Interfaces in Nanostructured Materials

Corresponding author: Yes

City of event: Schwäbisches Bildungszentrum,

Date of event: 06/11/2006

C. Pecharromán; J. I. Beltrán; M.C. Muñoz and J.S. Moya.

33 Title of the work: IR soft modes in ceramic lithium/sodium lanthanum titanate superionic conductors

Name of the conference: 30th International Symposium on Dynamical Properties of Solids (DYPROSO 2005) Lugar Cesky Krumlov, República Checa

Corresponding author: Yes

Date of event: 27/09/2005

C. Pecharromán; J. Sanz; R Jiménez; A. Várez; T Ostapchuk.

34 Title of the work: Alumina nanocomposites for structural applications

Name of the conference: IX Conference & Exhibition of the European Ceramic Society (ECERS)

Corresponding author: No

City of event: Ljubiana, Slovenia

Date of event: 19/06/2005

Organising entity: European Ceramic Society

S.Deville; J.Fantozzi; J.Chevalier; J.F.Bartolomé; Carlos Pecharromán; J.S.Moya; J.L.Menéndez; L.A. Diaz; R. Torrecillas.

35 Title of the work: Relationship between Transparency and Texturing in Alumina Ceramics: Theoretical Model and New Fabrication Route

Name of the conference: PACRIM8 Lugar Vancouver, Canada

Corresponding author: Yes

City of event: Vancouver, Canada

Date of event: 31/05/2005

Organising entity: American Ceramic Society

Carlos Pecharromán; Gustavo Mata-Osoro; José S. Moya.

36 Title of the work: "Ceramic-based nanocomposites for multifunctional applications"

Name of the conference: NATO workshop "Nanocomposites for Secure Society"

City of event: Hotel Theoxenia,

Date of event: 2005

C. Pecharromán.

37 Title of the work: "Wet Processing and Characterization of BaTiO₃/Ni Composites with High Dielectric Constant Based on the Percolative Theory"

Name of the conference: International Conference on the Advances in Materials & Processing Technologies (AMPT'01)

City of event: Leganés, Spain

Date of event: 15/09/2001

F. Esteban-Betegón; S. López-Esteban; J.F. Bartolomé; C. Pecharromán; J.S. Moya.



- 38 Title of the work:** “Stability of ZrO₂-Ni Powder in Liquids media”
Name of the conference: 7th International Conference on Ceramic Processing Science.
City of event: Inuyama, Japan
Date of event: 15/05/2000
S. López-Esteban; J.F. Bartolomé; C. Pecharromán; J.S. Moya; J. Requena.
- 39 Title of the work:** “Temperature dependence of Luminiscence from Semiconductor Microcavities”.
Name of the conference: Mar98 Meeting of the American Physical Society.
City of event: United States of America
Date of event: 03/1998
J. K. Son; I. W. Tao; C. Pecharromán; E.E. Méndez; R. Ruf.
- 40 Title of the work:** “Signatures of exciton-cavity coupling in semiconductor microcavities”
Name of the conference: 8th. International Conference on Modulated Semiconductor Structures
City of event: Santa Barbara, United States of America
Date of event: 14/07/1997
I. W. Tao; J. K. Son; C. Pecharroman; E. E. Mendez; R. Ruf.
- 41 Title of the work:** “Neutron Scattering study of the picosecond dynamics of polyisobutylene”
Name of the conference: 7th Meeting of the European Macromolecular Club.
City of event: Estrasburgo, France
Date of event: 23/05/1995
C. Pecharromán; D. Richter; B. Frick; U. Buchenau.
- 42 Title of the work:** “Time-Domain evaluation technique for neutron TOF data.”
Name of the conference: Spring-Conference of the German Physical Society”
City of event: Jülich, Germany
Date of event: 20/03/1995
C. Pecharromán; U. Buchenau.
- 43 Title of the work:** Dielectric behavior of ceramic-nano carbon composites around the percolation threshold
Name of the conference: EMN Meeting on Ceramics
Corresponding author: No
City of event: Orlando, United States of America
L. Fernández-García; M. Suárez; J.L. Menéndez; C. Pecharromán; R. Menéndez; R. Santamaría.

R&D management and participation in scientific committees

R&D management

Name of the activity: Scientific supervisor of the Infrared and ellipsometry service of the ICMM-CSIC
Type of management: Management of body
Performed tasks: Scientific consulting, Infrastructure Project applications, Maintenance, Spectroscopic techniques teaching.
Entity: Instituto de Ciencia de Materiales de Madrid **Type of entity:** State agency
Start date: 01/01/2001 **Duration:** 18 years - 3 months



Other achievements

Stays in public or private R&D centres

- 1** **Entity:** Chemistry School, University of Melbourne.
City of entity: Melbourne, Australia
Start date: 2011
Name of programme: Plasmónica de agregados de nanopartículas metálicas sobre un sustrato.
Goals of the stay: : O (sabático)
- 2** **Entity:** Instituto de Física; Academia de Ciencias de la República Checa.
City of entity: Praga, Czech Republic
Start date: 2004
Name of programme: Modificación de la frec. de modos blandos en nanocerámicas de BaTiO₃
Goals of the stay: : I
- 3** **Entity:** Max Plank Institut für Metalforschung,
City of entity: Stuttgart, Germany
Start date: 2003
Name of programme: Estudio de las interfase cerámica/metal en ZrO₂/Ni composites
Goals of the stay: : O (Uso microscopio)
- 4** **Entity:** Instituto de Física; Academia de Ciencias de la República Checa.
City of entity: Praga, Czech Republic
Start date: 2000
Name of programme: Propiedades Ópticas en el IR de agregados de partículas.
Goals of the stay: : I
- 5** **Entity:** State University of New York at Stony Brook, Department of Physics.
City of entity: Stony Brook, United States of America
Start date: 1996
Name of programme: Modificación de la emisión de pozos cuánticos de heteroestructuras de semiconductores por confinamiento en cavidades de semiconductores.
Goals of the stay: : P
- 6** **Entity:** Instituto Laue Langevin (ILL)
City of entity: Grenoble, France
Start date: 1995
Name of programme: Medida de QENS en polímeros amorfos
Goals of the stay: : O
- 7** **Entity:** Institut für Feskörperforschung (IFF), KFA-Jülich
City of entity: Jülich, Germany
Start date: 1994
Name of programme: Estudio de la influencia del Scattering multiple en espectroscopía de tiempo de vuelo de neutrones aplicado a sistemas poliméricos.
Goals of the stay: : C P