



Pablo Álvarez Alonso

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**C****V****n**

CURRÍCULUM VITAE NORMALIZADO

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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.

Number of citations >1600

Average citations per article: 22

Number of papers: 73

Q1 Publications: 54

Book chapters: 1

**Pablo Álvarez Alonso**

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Current professional situation

Employing entity: Universidad de Oviedo **Type of entity:** University
Department: Física, Facultad de Ciencias
Professional category: Associate professor (Reader)
City employing entity: Spain
Phone: (+34) 985182132 **Email:** alvarezapablo@uniovi.es
Start date: 27/10/2021
Type of contract: Permanent employment contract **Dedication regime:** Full time
Primary (UNESCO code): 220208 - Magnetism; 221101 - Alloys; 221117 - Magnetic properties; 221129 - Thermal properties of solids
Secondary (UNESCO code): 221104 - Crystallography; 221105 - Crystal structure; 221190 - Solid state Physics. Foil
Tertiary (UNESCO code): 221119 - Mechanical properties; 221121 - Metallurgy

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad de Oviedo	Senior Lecturer	23/03/2021
2	Universidad de Oviedo	Lecturer	26/10/2016
3	Universidad del País Vasco	Researcher	26/03/2012
4	Universidad de Oviedo	Researcher	15/07/2011
5	Universidad de Oviedo	PhD	01/06/2007
6	Universidad de Oviedo	Researcher	01/03/2006
7	Universidad de Oviedo	Research scholarship	01/11/2004
8	Hahn-Meitner Institut	Research scholar	01/08/2004
9		Son birth	02/04/2016

1 **Employing entity:** Universidad de Oviedo **Type of entity:** University
Department: Departamento de Física, Escuela Politécnica de Ingeniería de Gijón
City employing entity: Oviedo, Principality of Asturias, Spain



Professional category: Senior Lecturer
Phone: (34) 985182132
Start-End date: 23/03/2021 - 25/10/2021
Type of contract: Permanent employment contract
Dedication regime: Full time
Primary (UNESCO code): 221104 - Crystallography; 221117 - Magnetic properties; 221123 - Non-crystalline states; 221129 - Thermal properties of solids
Area of leadership and/or management activity: University

Leadership and management (Y/N): Yes
Email: alvarezapablo@uniovi.es
Duration: 7 months - 3 days

2 **Employing entity:** Universidad de Oviedo
Department: Departamento de Física, Escuela Politécnica de Ingeniería de Gijón
City employing entity: Oviedo, Principality of Asturias, Spain
Professional category: Lecturer
Phone: (34) 985182132
Start-End date: 26/10/2016 - 23/03/2021
Type of contract: Temporary employment contract
Dedication regime: Full time
Primary (UNESCO code): 221104 - Crystallography; 221117 - Magnetic properties; 221123 - Non-crystalline states; 221129 - Thermal properties of solids
Area of leadership and/or management activity: University

Type of entity: University
Leadership and management (Y/N): Yes
Email: alvarezapablo@uniovi.es
Duration: 4 years - 7 months

3 **Employing entity:** Universidad del País Vasco
Department: Departamento de Electricidad y Electrónica, Facultad de Ciencia y Tecnología
City employing entity: Bilbao, Basque Country, Spain
Professional category: Researcher
Phone: (34) 946015400
Start-End date: 26/03/2012 - 28/02/2016
Type of contract: Temporary employment contract
Dedication regime: Full time
Primary (UNESCO code): 221104 - Crystallography; 221117 - Magnetic properties; 221123 - Non-crystalline states; 221129 - Thermal properties of solids
Performed tasks: 1- Patterned magnetic thin film fabrication and characterization. 2- Study of the magnetocaloric effect in Heusler alloys (ribbons and bulks). 3- Study of Invar effect in thin films and ribbons 4- Crystal and magnetic structure of R₂Fe₁₇ alloys (R= rare earth) 5- Magnetic characterization and Magnetocaloric effect in R-based ribbons (R₃Co, RMn₂, RAl₂,...) 6- Teaching of Crystal structure determination course. 7- Direction of Master and Degree thesis
Area of leadership and/or management activity: University

Type of entity: University
Leadership and management (Y/N): No
Email: pablo.alvarez@ehu.es
Duration: 3 years - 11 months

4 **Employing entity:** Universidad de Oviedo
Department: Departamento de Física, Facultad de Geología
City employing entity: Oviedo, Principality of Asturias, Spain
Professional category: Researcher
Email: alvarezapablo@uniovi.es
Start-End date: 15/07/2011 - 23/03/2012
Type of contract: Temporary employment contract
Dedication regime: Full time
Primary (UNESCO code): 221104 - Crystallography; 221117 - Magnetic properties; 221123 - Non-crystalline states; 221129 - Thermal properties of solids
Performed tasks: Study of the magnetocaloric effect in amorphous ribbons and polycrystalline alloys
Area of leadership and/or management activity: University

Type of entity: University
Leadership and management (Y/N): No
Duration: 8 months - 8 days



- 5** **Employing entity:** Universidad de Oviedo **Type of entity:** University
Department: Departamento de Física, Facultad de Ciencias
City employing entity: Oviedo, Principality of Asturias, Spain
Professional category: PhD **Leadership and management (Y/N):** No
Phone: (034) 985103000 - 3347 **Email:** alvarezpablo.uo@uniovi.es
Start-End date: 01/06/2007 - 31/05/2011 **Duration:** 4 years
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Primary (UNESCO code): 220208 - Magnetism; 221105 - Crystal structure; 221123 - Non-crystalline states
Performed tasks: Study of the magnetocaloric and magneto-volume effects in R₂Fe₁₇ alloys (R=Y,Ce,Pr,...)
Area of leadership and/or management activity: University
- 6** **Employing entity:** Universidad de Oviedo **Type of entity:** University
Department: Departamento de Física, Facultad de Ciencias
City employing entity: Oviedo, Principality of Asturias, Spain
Professional category: Researcher **Leadership and management (Y/N):** No
Start-End date: 01/03/2006 - 31/05/2007 **Duration:** 1 year - 2 months - 30 days
Type of contract: Temporary employment contract
Dedication regime: Full time
Primary (UNESCO code): 220208 - Magnetism
Secondary (UNESCO code): 221300 - Thermodynamics
Tertiary (UNESCO code): 221104 - Crystallography
Performed tasks: 1- Fabrication of nanomaterial with magnetocaloric effect at room temperature by means of arc furnace and mechanical milling. 2- Structural, microstructural, and magnetic characterization of these materials. 3- Determination of the magnetic entropy change as a function of the temperature and the applied magnetic field (the magnetocaloric effect)
Area of leadership and/or management activity: University
- 7** **Employing entity:** Universidad de Oviedo **Type of entity:** University
Department: Departamento de Física, Facultad de Ciencias
City employing entity: Oviedo, Principality of Asturias, Spain
Professional category: Research scholarship **Leadership and management (Y/N):** No
Start-End date: 01/11/2004 - 30/06/2005 **Duration:** 7 months - 29 days
Type of contract: Collaboration scholarship
Dedication regime: Part time
Primary (UNESCO code): 220208 - Magnetism
Performed tasks: Study the magnetic properties and the magnetoimpedance effect in Fe-based amorphous ribbons.
Area of leadership and/or management activity: University
- 8** **Employing entity:** Hahn-Meitner Institut **Type of entity:** Public Research Body
City employing entity: Berlín, Berlin, Germany
Professional category: Research scholar **Leadership and management (Y/N):** No
Start-End date: 01/08/2004 - 30/09/2004 **Duration:** 1 month - 25 days
Type of contract: Temporary employment contract
Dedication regime: Full time
Primary (UNESCO code): 120326 - Simulation
Secondary (UNESCO code): 220208 - Magnetism
Performed tasks: Modeling of the shield for a 30 T superconductor magnet



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CURRÍCULUM VÍTAE NORMALIZADO

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9 **Professional category:** Son birth
Start date: 02/04/2016

Duration: 1 year



Education

University education

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

University degree: Higher degree

Name of qualification: Licenciante in Physics

City degree awarding entity: Oviedo, Principality of Asturias, Spain

Degree awarding entity: Universidad de Oviedo **Type of entity:** University

Date of qualification: 12/2005

Average mark: Good

Standardised degree: No

Doctorates

Doctorate programme: Materials Science and Metallurgical Engineering

Degree awarding entity: Universidad de Oviedo **Type of entity:** University

City degree awarding entity: Oviedo, Spain

Date of degree: 04/07/2011

DEA awarding entity: Universidad de Oviedo

Date DEA was awarded: 15/07/2008

European doctorate: Yes

Date of certificate: 18/09/2011

Thesis title: Magnetocaloric and magnetovolume effects in Fe-based alloys

Thesis director: Pedro Gorria Korres

Thesis co-director: Blanca Hernando Grande

Obtained qualification: Sobresaliente "Cum Laude"

Recognition of quality: No

Special doctorate award: No

Standardised degree: No

Other postgraduate university studies

Type of education: Postgraduate

Postgraduate qualification: Undergraduate Research Thesis

City degree awarding entity: Oviedo, Principality of Asturias, Spain

Degree awarding entity: Universidad de Oviedo **Type of entity:** University

Faculty, institute or centre: Facultad de Ciencias

Date of qualification: 18/09/2006

Obtained qualification: Notable

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

- 1** **Type of training:** Course
Training title: Agilizando tareas de Office 365 con Power Automate para Profesores e Investigadore
City awarding entity: Oviedo, Principality of Asturias, Spain
Awarding entity: Universidad de Oviedo **Type of entity:** University
End date: 30/05/2025 **Duration in hours:** 10 hours
- 2** **Training title:** Workshop on Structural and Magnetic Tools of the Bilbao Crystallographic Server
Awarding entity: Universidad del País Vasco **Type of entity:** University
End date: 01/07/2022 **Duration in hours:** 40 hours
- 3** **Type of training:** Course
Training title: Jornada de Caracterización Magnética
City awarding entity: Madrid,
Awarding entity: Instituto de Magnetismo Aplicado
Training manager: 1
End date: 29/11/2017 **Duration in hours:** 7 hours
- 4** **Type of training:** Course
Training title: Nanotechnology: The Basics
Awarding entity: Coursera **Type of entity:** Business
Training manager: Vicki Colvin
End date: 24/12/2013 **Duration in hours:** 20 hours
- 5** **Type of training:** Course
Training title: Crafting an Effective Writer: Tools of the Trade
Awarding entity: Coursera **Type of entity:** Business
Training manager: Ted Blake
End date: 15/06/2013 **Duration in hours:** 20 hours
- 6** **Type of training:** Practical work
Training title: Fabrication de composants MOS silicium
City awarding entity: Toulouse, France
Awarding entity: Atelier Interuniversitaire de Micro-nano **Type of entity:** Innovation and Technology Centres
Électronique
Training manager: Marc Respaud
End date: 14/06/2013 **Duration in hours:** 30 hours
- 7** **Training title:** Spring school on magnetic materials and applications
Awarding entity: BCMaterials **Type of entity:** R&D Centre
End date: 10/05/2013 **Duration in hours:** 30 hours
- 8** **Type of training:** Course
Training title: Computing for Data Analysis
Awarding entity: Coursera **Type of entity:** Business
Training manager: Roger Peng
End date: 23/01/2013 **Duration in hours:** 30 hours



- 9** **Type of training:** Course
Training title: Writing in the Sciences
Awarding entity: Coursera
Training manager: Kristin Sainani
End date: 18/11/2012
Type of entity: Business
Duration in hours: 35 hours
- 10** **Type of training:** Course
Training title: El Eigenfactor: un nuevo y potente instrumento bibliométrico para evaluar la investigación.
City awarding entity: Oviedo, Principality of Asturias, Spain
Awarding entity: Universidad de Oviedo
Aims of the entity: Docente
End date: 17/11/2011
Type of entity: University
Duration in hours: 10 hours
- 11** **Type of training:** Course
Training title: Cómo comunicar y diseminar los resultados científicos en internet
City awarding entity: Oviedo, Principality of Asturias, Spain
Awarding entity: Universidad de Oviedo
Aims of the entity: Docente
End date: 11/11/2011
Type of entity: University
Duration in hours: 10 hours
- 12** **Type of training:** Course
Training title: Seguridad informática en el entorno personal
City awarding entity: Oviedo, Principality of Asturias, Spain
Awarding entity: Universidad de Oviedo
Aims of the entity: Docente
End date: 14/10/2011
Type of entity: University
Duration in hours: 10 hours
- 13** **Type of training:** Course
Training title: Comunicación Efectiva (Habilidad Directiva)
City awarding entity: Oviedo, Principality of Asturias, Spain
Awarding entity: Universidad de Oviedo
Aims of the entity: Docente
End date: 23/09/2011
Type of entity: University
Duration in hours: 10 hours
- 14** **Type of training:** Course
Training title: 1er Taller de McPhase. Software de Magnetismo Complejo
City awarding entity: Gijón, Principality of Asturias, Spain
Awarding entity: Universidad de Oviedo
Aims of the entity: Docente
End date: 13/05/2011
Duration in hours: 32 hours
- 15** **Type of training:** Course
Training title: Cómo gestionar un proyecto de investigación y cómo difundir los resultados obtenidos
City awarding entity: Oviedo, Principality of Asturias, Spain
Awarding entity: Universidad de Oviedo
Aims of the entity: Docente
End date: 24/01/2011
Type of entity: University
Duration in hours: 10 hours



- 16** **Type of training:** Course
Training title: HERCULES Specialized course: Application of neutron and synchrotron radiation to magnetism
City awarding entity: Grenoble, Rhône-Alpes, France
Awarding entity: Université Joseph Fourier
Aims of the entity: Docente
End date: 20/11/2009 **Duration in hours:** 40 hours
- 17** **Type of training:** Course
Training title: Higher European Research Course for Users of Large Experimental Systems (HERCULES)
City awarding entity: Grenoble, Rhône-Alpes, France
Awarding entity: Université Joseph Fourier **Type of entity:** University
Aims of the entity: Docente
End date: 20/03/2008 **Duration in hours:** 150 hours
- 18** **Type of training:** Course
Training title: 1st ILL Annual School on Advanced Neutron Diffraction Data Treatment using the FullProf Suite
City awarding entity: Grenoble, Rhône-Alpes, France
Awarding entity: Institute Laue-Langevin **Type of entity:** Public Research Body
Aims of the entity: Docente
End date: 15/02/2008 **Duration in hours:** 25 hours
- 19** **Type of training:** Course
Training title: Técnicas de Caracterización de Sólidos
City awarding entity: Oviedo, Principality of Asturias, Spain
Awarding entity: Instituto Nacional del Carbón **Type of entity:** State agency
End date: 20/04/2007 **Duration in hours:** 24 hours
- 20** **Type of training:** Course
Training title: One day tutorial on magnetic Sensors & Actuators
City awarding entity: Leioa, Basque Country, Spain
Awarding entity: Universidad del País Vasco **Type of entity:** University
Aims of the entity: Docente
End date: 01/07/2006 **Duration in hours:** 6 hours
- 21** **Type of training:** Course
Training title: 27th Tutorial on Neutron Scattering
City awarding entity: Berlín, Berlin, Germany
Awarding entity: Hahn-Meitner Institut **Type of entity:** Public Research Body
Aims of the entity: Docente
End date: 03/03/2006 **Duration in hours:** 30 hours

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

- 1** **Title of course/seminar:** Herramientas para la generación de materiales multimedia y el trabajo colaborativo en entornos universitarios
City organizing entity: Balearic Islands, Spain
Organising entity: Universidad Pública de Navarra **Type of entity:** University
Duration in hours: 25 hours
Start-End date: 03/05/2022 - 26/05/2022



Target group profile: Profesorado del grupo G9 de universidades

Provable tasks: - Ability to handle a desktop video conferencing application. - Recreate and manage different teaching scenarios in which communication and information exchange take place through an online meeting. - Generation of new teaching materials that arise as a result of the recording of the on-line meetings. - Generation of new teaching materials through applications such as PowerPoint and Sway integrated in the Office 365 package.

2 Title of course/seminar: Edición, grabación y streaming de vídeo con software libre

City organizing entity: Basque Country, Spain

Organising entity: Universidad del País Vasco

Type of entity: University

Duration in hours: 38 hours

Start-End date: 26/04/2022 - 24/05/2022

Target group profile: Profesorado del grupo G9 de universidades

Provable tasks: Know the different families of programs to work with video, from editing to rendering 3D movies, seeing some examples. Understand what free and proprietary licenses currently exist, both in the world of software and creative resources related to the course (image, audio, video), understanding their differences and the advantages and disadvantages of each model. See audio and video basics useful for editing, recording, and streaming. Learn how to edit and render videos with Kdenlive from material resource or own recordings, adding effects and transitions, audio corrections, titles and credits, etc. Understand and practice the workflow for live recording and audio and video streaming using the OBS Studio program, including installing extensions and scripts to extend its functionality. Know internet resources for all of the above: materials available in terms of image, audio and video suitable for reuse, plugins available, and learning resources to deepen

3 Title of course/seminar: XIII Jornadas de innovación en docencia universitaria

City organizing entity: Oviedo, Principality of Asturias, Spain

Organising entity: Universidad de Oviedo

Type of entity: University

Duration in hours: 21 hours

Start-End date: 19/12/2020 - 21/01/2021

Target group profile: Profesorado de la Universidad de Oviedo

4 Title of course/seminar: Despierta el interés de tus alumnos con PowerPoint: del puff al wow

Goals of the course/seminar: Aplicar metodologías docentes que favorezcan la participación y la implicación de los estudiantes en su propio aprendizaje. Utilizar herramientas TIC para fomentar y evaluar la participación

City organizing entity: Balearic Islands, Spain

Organising entity: Universidad de las Islas Baleares

Type of entity: University

Duration in hours: 25 hours

Start-End date: 15/11/2020 - 20/12/2020

Target group profile: Profesorado del grupo G9 de universidades

Provable tasks: Improve presentations in Power Point. Understand the structures and hierarchies: distinguish the structures of the slide designs and learn to rank the information to be shown. Design a visually clean, concrete, hierarchical, structured and well-designed presentation. Awaken the creativity to design beautiful works.

5 Title of course/seminar: XII Jornadas de innovación en docencia universitaria (fase virtual)

City organizing entity: Oviedo, Principality of Asturias, Spain

Organising entity: Universidad de Oviedo

Type of entity: University

Duration in hours: 8 hours

Start-End date: 17/12/2019 - 27/01/2020

Target group profile: Profesorado de la Universidad de Oviedo

6 Title of course/seminar: Manejo básico de Office 365: gestión personal, productividad y colaboración en la nube

Goals of the course/seminar: Creación de grupos en Office365 y gestión de usuarios; Uso de herramientas heredadas del entorno Office: Excel, PowerPoint, Word; Uso de herramientas de planificación: OneNote, Class Notebook, Form.

City organizing entity: Oviedo, Principality of Asturias, Spain

**Organising entity:** Universidad de Oviedo**Type of entity:** University**Duration in hours:** 10 hours**Start-End date:** 03/06/2019 - 21/06/2019**Length:** 18 days**Target group profile:** Profesorado de la Universidad de Oviedo**Provable tasks:** - Creation of groups in Office365 and user management. - Use of tools inherited from the Office environment: Excel, PowerPoint, Word. - Use of planning tools: OneNote, Class Notebook, Form.**Aims of the stay:** Contracted

- 7 Title of course/seminar:** Estrategias de fomento de la participación y su evaluación a través de las TIC
Goals of the course/seminar: Aplicar metodologías docentes que favorezcan la participación y la implicación de los estudiantes en su propio aprendizaje. Utilizar herramientas TIC para fomentar y evaluar la participación
City organizing entity: Castile-La Mancha, Spain
Organising entity: Universidad de Castilla-La Mancha **Type of entity:** University
Duration in hours: 25 hours
Start-End date: 30/04/2019 - 30/05/2019
Target group profile: Profesorado del grupo G9 de universidades
Provable tasks: - Apply teaching methodologies that favor the participation and involvement of students in their own learning. - Use ICT tools to promote and evaluate participation.
- 8 Title of course/seminar:** Creación de contenidos multimedia: Editores de imagen, vídeo y audio
City organizing entity: Oviedo, Principality of Asturias, Spain
Organising entity: Universidad de Oviedo **Type of entity:** University
Duration in hours: 16 hours
Start-End date: 20/05/2019 - 24/05/2019 **Length:** 18 days
Target group profile: Profesorado de la Universidad de Oviedo
Aims of the stay: Contracted
- 9 Title of course/seminar:** XI Jornadas de innovación en docencia universitaria (fase virtual)
City organizing entity: Oviedo, Principality of Asturias, Spain
Organising entity: Universidad de Oviedo **Type of entity:** University
Duration in hours: 8 hours
Start-End date: 17/12/2018 - 27/01/2019
Target group profile: Profesorado de la Universidad de Oviedo
- 10 Title of course/seminar:** Cómo utilizar el Campus Virtual de la Universidad de Oviedo. Nivel Avanzado
Goals of the course/seminar: Aprender a usar recursos avanzados de la plataforma Moodle, así como de otras herramientas importantes para el soporte de cursos online como eXeLearning o Adobe Connect disponibles en la Universidad de Oviedo y que permiten la docencia online. El conjunto de herramientas a revisar permitirá crear contenidos de calidad, además de sistemas de evaluación avanzados que eviten al máximo la subjetividad y permitan automatizar el proceso. También hay herramientas que facilitan la conexión síncrona con los estudiantes a través de la plataforma, lo que permite clases online.
City organizing entity: Oviedo, Principality of Asturias, Spain
Organising entity: Universidad de Oviedo **Type of entity:** University
Duration in hours: 18 hours
Start-End date: 16/07/2018 - 31/07/2018 **Length:** 18 days
Target group profile: Profesorado de la Universidad de Oviedo
Provable tasks: Creación de los distintos tipos de preguntas. Gestión de preguntas en el repositorio. Gestionar las preguntas dentro de un cuestionario. Uso del libro de calificaciones. Gestión de elementos de calificación para actividades no evaluadas automáticamente. Evaluación del trabajo de los alumnos a través de rúbricas personalizadas. Creación y gestión de un taller. Uso de herramientas de videoconferencia. Edición de contenidos digitales a través de herramientas de autor: Uso básico de Exelearning
Aims of the stay: Contracted

11 Title of course/seminar: Intensificación en pronunciación y fonética correctiva del inglés

Goals of the course/seminar: Ayudar al alumnado en el camino hacia un Dominio Operativo Eficaz (Nivel C1 del MCERL) de las destrezas fonológicas en inglés. Revisar y afianzar los contenidos del curso Pronunciación y fonética correctiva del inglés, en particular lo referente a las unidades de sonido, sus rasgos fonéticos, su representación gráfica y sus realizaciones. Ayudar a los alumnos a entender los aspectos más importantes de la producción y secuenciación de sonidos de habla en inglés. Familiarizar al alumnado con la composición fonética de las palabras en inglés (estructura silábica, secuencias acentuales, etc.). Señalar la incidencia que determinados errores de pronunciación pueden llegar a tener sobre la competencia comunicativa en inglés.

City organizing entity: Oviedo, Principality of Asturias, Spain

Organising entity: Universidad de Oviedo

Type of entity: University

Duration in hours: 20 hours

Start-End date: 07/05/2018 - 06/06/2018

Length: 18 days

Target group profile: Profesorado de la Universidad de Oviedo

Aims of the stay: Contracted

12 Title of course/seminar: Gamificación de la docencia universitaria

Goals of the course/seminar: Design gamified activities. Integrate educational tools and applications in lectures. Assess the impact of gamification in the students' learning process

Organising entity: Universidad de La Rioja

Type of entity: University

Duration in hours: 25 hours

Start-End date: 10/04/2018 - 15/05/2018

13 Title of course/seminar: X Jornadas de innovación en docencia universitaria (fase virtual)

City organizing entity: Oviedo, Principality of Asturias, Spain

Organising entity: Universidad de Oviedo

Type of entity: University

Duration in hours: 5 hours

Start-End date: 18/12/2017 - 22/01/2018

Length: 1 day

Target group profile: Profesorado de la Universidad de Oviedo

14 Title of course/seminar: X Jornadas de innovación en docencia universitaria

City organizing entity: Oviedo, Principality of Asturias, Spain

Organising entity: Universidad de Oviedo

Type of entity: University

Duration in hours: 6 hours

Start-End date: 17/01/2018 - 17/01/2018

Length: 1 day

Target group profile: Profesorado de la Universidad de Oviedo

15 Title of course/seminar: Teaching science at University

Goals of the course/seminar: Make our knowledge as researchers accessible to students. Show to communicate science to novices as well as advanced students in science. Value teaching with analogies and to train students' competences. Implement evidence-based strategies into teaching. Use students everyday-conceptions for the development of courses. Prepare analogies and models. Implement problem-based teaching. Set up for experiments and teach the nature of science.

Organising entity: Coursera

Type of entity: Business

Duration in hours: 13 hours

Start-End date: 29/10/2017 - 26/11/2017

16 Title of course/seminar: IX Jornadas de innovación en docencia universitaria

City organizing entity: Oviedo, Principality of Asturias, Spain

Organising entity: Universidad de Oviedo

Type of entity: University

Start-End date: 12/01/2017 - 12/01/2017

Length: 1 day

Target group profile: Profesorado de la Universidad de Oviedo



- 17 Title of course/seminar:** Taller: El campus virtual más que un repositorio: nuevas herramientas para la docencia
City organizing entity: Oviedo, Principality of Asturias, Spain
Organising entity: Universidad de Oviedo **Type of entity:** University
Duration in hours: 3 hours
Start-End date: 12/01/2017 - 12/01/2017 **Length:** 1 day
Target group profile: Profesorado de la Universidad de Oviedo
- 18 Title of course/seminar:** Foundations of teaching for learning 1: introduction
Organising entity: Coursera **Type of entity:** Business
Duration in hours: 20 hours
Start-End date: 18/08/2013 - 15/09/2013
- 19 Title of course/seminar:** Inteligencia emocional. Cómo controlar el estrés docente
Goals of the course/seminar: - Diferenciar entre cociente intelectual y cociente emocional.- Ver las principales características y competencias de las personas con inteligencia emocional.- Controlar el estrés, gestionar las emociones.- El control de las situaciones difíciles en el ámbito de la docencia
City organizing entity: Oviedo, Principality of Asturias, Spain
Organising entity: Universidad de Oviedo **Type of entity:** University
Duration in hours: 10 hours
Start-End date: 19/11/2011 - 20/11/2011 **Length:** 2 days
Target group profile: Profesorado de la Universidad de Oviedo
Provable tasks: Técnicas de control emocional
Aims of the stay: Contracted
- 20 Title of course/seminar:** Planificación y evaluación de la docencia con "Team Teaching"
Goals of the course/seminar: Conocer el modelo de educación denominado "Team Teaching" y analizar diferentes posibilidades de colaboración- Diseñar una experiencia de Team Teaching- Planificar su proceso de implantación y evaluación.
City organizing entity: Oviedo, Principality of Asturias, Spain
Organising entity: Universidad de Oviedo **Type of entity:** University
Duration in hours: 10 hours
Start-End date: 19/11/2011 - 20/11/2011 **Length:** 2 days
Target group profile: Profesorado de la Universidad de Oviedo
Provable tasks: Técnicas de coordinación entre profesores de una misma asignatura
Aims of the stay: Contracted
- 21 Title of course/seminar:** La tutoría universitaria
Goals of the course/seminar: Potenciar la tutoría como una técnica eficaz para facilitar el aprendizaje autónomo. - Estudiar qué es, cómo se lleva a cabo una tutoría individual o grupal, qué técnicas básicas requiere, cómo puede facilitar el aprendizaje y cómo se puede evaluar
City organizing entity: Oviedo, Principality of Asturias, Spain
Organising entity: Universidad de Oviedo **Type of entity:** University
Duration in hours: 10 hours
Start-End date: 18/11/2011 - 19/11/2011 **Length:** 2 days
Target group profile: Profesorado de la Universidad de Oviedo
Provable tasks: Técnicas básicas para facilitar el aprendizaje
Aims of the stay: Contracted



Language skills

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

Teaching experience

General teaching experience

- Type of teaching:** Official teaching

Name of the course: Mechanics and Thermodynamics

Type of programme: Engineering **Type of teaching:** In person theory and practical work

Type of subject: Obligatory

University degree: Bachelor's Degrees in Engineering (Bilingual)

Course given: 1 **Frequency of the activity:** 2

Start date: 10/09/2024 **End date:** 06/2025

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 52,5

Entity: Universidad de Oviedo **Type of entity:** University

Faculty, institute or centre: Escuela Politécnica Superior de Ingeniería de Gijón

City of entity: Gijón, Principality of Asturias, Spain

Subject language: English
- Type of teaching:** Official teaching

Name of the course: Técnicas Experimentales I

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

Type of subject: Obligatory

University degree: Joint Bachelor's Degree in Physics / Mathematics

Course given: 1 **Frequency of the activity:** 1

Start date: 10/09/2024 **End date:** 06/2025

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 33

Entity: Universidad de Oviedo **Type of entity:** University

Faculty, institute or centre: Facultad de Ciencias

City of entity: Oviedo, Principality of Asturias, Spain

Subject language: Spanish
- Type of teaching:** Official teaching

Name of the course: Técnicas de Análisis y Caracterización de Materiales I

Type of programme: Master's degree **Type of teaching:** In person theory and laboratory work

Type of subject: Obligatory

University degree: Master's Degree in Materials Science and Technology

Frequency of the activity: 8

Start date: 15/09/2017 **End date:** 06/2025



Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 7

Entity: Universidad de Oviedo

Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Minas

City of entity: Oviedo, Principality of Asturias, Spain

Subject language: Spanish

4 Type of teaching: Official teaching

Name of the course: Física de los Materiales Magnéticos y Aplicaciones

Type of programme: Bachelor's degree

Type of teaching: In person theory

Type of subject: Optional

University degree: Bachelor's Degree in Physics

Course given: 4

Frequency of the activity: 2

Start date: 10/09/2023

End date: 01/2025

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 30

Entity: Universidad de Oviedo

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias

Department: Physics

City of entity: Oviedo, Principality of Asturias, Spain

Subject language: Spanish

5 Type of teaching: Official teaching

Name of the course: Magnetismo Avanzado

Type of programme: Master's degree

Type of teaching: In person theory

Type of subject: Optional

University degree: Master's Degree in Advanced Physics: Particles, Astrophysics, Nanophysics, and Quantum Materials

Frequency of the activity: 6

Start date: 15/09/2019

End date: 01/2025

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 5

Entity: Universidad de Oviedo

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias

City of entity: Oviedo, Principality of Asturias, Spain

Subject language: Spanish

6 Type of teaching: Official teaching

Name of the course: Waves and Electromagnetism

Type of programme: Engineering

Type of teaching: In person theory, laboratory work, and practical work

Type of subject: Obligatory

University degree: Bachelor's Degrees in Engineering (Bilingual)

Course given: 1

Frequency of the activity: 5

Start date: 01/2020

End date: 06/2024

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 63

Entity: Universidad de Oviedo

Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior de Ingeniería de Gijón

City of entity: Gijón, Principality of Asturias, Spain

Subject language: English



- 7** **Type of teaching:** Official teaching
Name of the course: Técnicas Experimentales II
Type of programme: Bachelor's degree
Type of subject: Obligatory
University degree: Joint Bachelor's Degree in Physics / Mathematics
Course given: 2
Start date: 10/09/2017
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 33
Entity: Universidad de Oviedo
Faculty, institute or centre: Facultad de Ciencias
City of entity: Oviedo, Principality of Asturias, Spain
Subject language: Spanish
Type of teaching: Laboratory work
Frequency of the activity: 2
End date: 06/2024
Type of entity: University
- 8** **Type of teaching:** Official teaching
Name of the course: Nuevas Fronteras y Retos de la Física Aplicada
Type of programme: Master's degree
Type of subject: Optional
University degree: Master's Degree in Advanced Physics: Particles, Astrophysics, Nanophysics, and Quantum Materials
Frequency of the activity: 1
Start date: 15/02/2024
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 3
Entity: Universidad de Oviedo
Faculty, institute or centre: Facultad de Ciencias
City of entity: Oviedo, Principality of Asturias, Spain
Subject language: Spanish
Type of teaching: In person theory
End date: 05/2024
Type of entity: University
- 9** **Type of teaching:** Official teaching
Name of the course: Fundamentos de Física
Type of programme: Engineering
Type of subject: Obligatory
University degree: Graduate in Geomatics and Surveying Engineering
Course given: 1
Start date: 10/09/2018
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 58
Entity: Universidad de Oviedo
Faculty, institute or centre: Escuela Universitaria de Ingenierías Técnicas de Mieres
City of entity: Mieres, Principality of Asturias, Spain
Subject language: Spanish
Type of teaching: In person theory, laboratory work and practical work
Frequency of the activity: 6
End date: 01/2024
Type of entity: University
- 10** **Type of teaching:** Official teaching
Name of the course: Theoretical Mechanics
Type of programme: Engineering
Type of subject: Obligatory
University degree: Bachelor's Degree in Mechanical Engineering
Course given: 1
Type of teaching: In person theory
Type of call: Non-competitive
Frequency of the activity: 1



Start date: 16/10/2023
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 40
Entity: Taishan University
City of entity: Tai'an, China
City funding entity: China
Subject language: English

End date: 01/11/2023

Type of entity: University

11 Type of teaching: Official teaching

Name of the course: Ondas y Electromagnetismo
Type of programme: Engineering

Type of teaching: In person theory, practical work, and laboratory work

Type of subject: Obligatory
University degree: Bachelor's Degree in Telecommunication Technologies and Services Engineering
Course given: 1
Start date: 01/2017

Frequency of the activity: 3

End date: 05/2019

Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 63

Entity: Universidad de Oviedo

Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior de Ingeniería de Gijón

City of entity: Gijón, Principality of Asturias, Spain

Subject language: Spanish

12 Type of teaching: Unofficial teaching

Name of the course: Procesing and analisys of the powder diffraction data using the FullProf Suite

Related skills: That the student acquire basic theoretical and practical knowledge about the different instrumental techniques that are used for: (a) the treatment of powder diffractometry data; (b) determination of the phase composition of a sample as well as the structural parameters; (c) qualitative and quantitative interpretation of structural information. For this purpose, the student will be introduced to the handling of computer applications included in the FullProf Suite.

Type of programme: Doctorate

Type of teaching: In person theory and laboratory work

Type of subject: Doctorate

Type of call: Non-competitive

University degree: Doctorate in Advanced Materials

Geographical area: National

Frequency of the activity: 1

Start date: 07/01/2019

End date: 16/01/2019

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 20

Entity: Consejo Nacional De Ciencia Y Tecnología (CONACYT)

Type of entity: State agency

Department: División de Materiales Avanzados

Type of entity: R&D Centre

City assessment entity: San Luis Potosí, Mexico

Funding entity: Instituto Potosino de Investigación Científica y Tecnológica

City funding entity: Mexico

Subject language: Spanish

13 Type of teaching: Official teaching

Name of the course: Técnicas Experimentales III

Type of programme: Bachelor's degree

Type of teaching: Laboratory work

Type of subject: Obligatory



University degree: Joint Bachelor's Degree in Physics / Mathematics

Course given: 1

Frequency of the activity: 1

Start date: 10/09/2017

End date: 10/01/2018

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 58

Entity: Universidad de Oviedo

Type of entity: University

Faculty, institute or centre: Facultad de Ciencias

City of entity: Oviedo, Principality of Asturias, Spain

Subject language: Spanish

14 Type of teaching: Official teaching

Name of the course: Propiedades Magnéticas de los Materiales

Type of programme: Master's degree

Type of teaching: In person theory

Type of subject: Obligatory

University degree: Master's Degree in Materials Science and Technology

Frequency of the activity: 1

Start date: 15/09/2017

End date: 31/12/2017

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 5

Entity: Universidad de Oviedo

Type of entity: University

Faculty, institute or centre: Escuela Técnica Superior de Ingenieros de Minas

City of entity: Oviedo, Principality of Asturias, Spain

Subject language: Spanish

15 Type of teaching: Official teaching

Name of the course: Mechanics and Thermodynamics

Type of programme: Engineering

Type of teaching: In person theory

Type of subject: Obligatory

University degree: Bachelor's Degrees in Engineering (Bilingual)

Course given: 1

Frequency of the activity: 1

Start date: 09/2017

End date: 10/2017

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 7

Entity: Universidad de Oviedo

Type of entity: University

Faculty, institute or centre: Escuela Politécnica Superior de Ingeniería de Gijón

City of entity: Gijón, Principality of Asturias, Spain

Subject language: English

16 Type of teaching: Official teaching

Name of the course: Mecánica y Termodinámica

Type of programme: Engineering

Type of teaching: In person theory, laboratory work, and practical work

Type of subject: Obligatory

University degree: Bachelor's Degree in Forestry and Natural Environment Engineering

Course given: First year

Start date: 31/10/2016

End date: 22/06/2017

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 25

Entity: Universidad de Oviedo

Type of entity: University

Faculty, institute or centre: Escuela Universitaria de Ingenierías Técnicas de Mieres

City of entity: Mieres, Principality of Asturias, Spain



Subject language: Spanish

17 Type of teaching: Official teaching

Name of the course: Waves and Electromagnetism

Type of programme: Engineering

Type of subject: Obligatory

University degree: Bilingual engineering degrees

Course given: 1

Start date: 10/2017

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 90

Entity: Universidad de Oviedo

Faculty, institute or centre: Escuela Politécnica Superior de Ingeniería de Gijón

City of entity: Gijón, Principality of Asturias, Spain

Subject language: English

Type of teaching: Laboratory work and practical work

Frequency of the activity: 2

End date: 05/2017

Type of entity: University

18 Type of teaching: Unofficial teaching

Name of the course: Procesamiento y análisis de datos de difracción de polvo y de monocristal mediante FullProf

Type of programme: Doctorate

Type of subject: Doctorate

Start date: 01/03/2016

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 20

Entity: Universidad del País Vasco

Faculty, institute or centre: Facultad de Ciencia y Tecnología

Type of teaching: Practical work (classroom-problems)

Type of call: Competitive

End date: 30/03/2016

Type of entity: University

19 Type of teaching: Unofficial teaching

Name of the course: Procesamiento y análisis de datos de difracción de polvo y de monocristal mediante FullProf

Type of programme: Doctorate

Type of call: Competitive

Start date: 11/05/2015

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 20

Entity: Universidad del País Vasco

Faculty, institute or centre: Facultad de Ciencia y Tecnología

Type of teaching: Practical work (classroom-problems)

End date: 15/05/2015

Type of entity: University

20 Type of teaching: Unofficial teaching

Name of the course: Procesing and analisys of the powder diffraction data using the FullProf Suite

Related skills: Que el alumno adquiera conocimientos teóricos y prácticos básicos sobre las distintas técnicas instrumentales que se utilizan para: (a) el tratamiento de los datos de difracción de polvos; (b) determinación de la composición de fases de una muestra así como de los parámetros estructurales; (c) interpretación cualitativa y cuantitativamente de información estructural. Con este fin, se introducirá al alumno en el manejo de las aplicaciones informáticas comprendidas en la Suite FullProf.

Type of programme: Doctorate

Type of subject: Doctorate

University degree: Doctorate in Advanced Materials

Geographical area: National

Frequency of the activity: 1

Start date: 19/03/2013

Type of hours/ ECTS credits: Hours

Hours/ECTS credits: 24

Type of teaching: In person theory and laboratory work

Type of call: Non-competitive

End date: 12/04/2013



Entity: Consejo Nacional De Ciencia Y Tecnología (CONACYT)
Department: División de Materiales Avanzados
Type of entity: R&D Centre
City assessment entity: San Luis Potosí, Mexico
Funding entity: Instituto Potosino de Investigación Científica y Tecnológica
City funding entity: Mexico
Subject language: Spanish

21 Type of teaching: Official teaching

Name of the course: Física General II
Type of programme: Bachelor's degree
Type of subject: Core
University degree: Bachelor's Degree in Chemistry
Course given: 1
Start date: 25/04/2010
Type of hours/ ECTS credits: Hours
Hours/ECTS credits: 8
Entity: Universidad de Oviedo
Faculty, institute or centre: Facultad de Química
Department: Física
City of entity: Oviedo, Principality of Asturias, Spain
Subject language: Spanish

Type of teaching: Practical work (classroom-problems)

Frequency of the activity: 1
End date: 28/04/2010

Type of entity: University

Experience supervising doctoral thesis and/or final year projects

1 Project title: Advanced Magnetocaloric and Thermoelectric Materials for Energy Harvesting

Type of project: Doctoral thesis
Co-director of thesis: Cristina Echevarría Bonet; Pablo Álvarez Alonso
Entity: Universidad de Oviedo **Type of entity:** University
City of entity: Oviedo, Spain
Student: José Luis Garrido Álvarez
Obtained qualification: Sobresaliente Cum Laude
Identify key words: Structure; Synthesis
Date of reading: 10/02/2025
European doctorate: No
Quality recognition: No

Narrative Explanation: In this thesis, we have studied various types of materials for recovering degraded energy, specifically magnetomechanical and thermoelectric energy harvesters. From the first type, we investigated R₂Fe₁₇ intermetallic alloys (R = rare earth) in ribbon form. These are magnetocaloric materials that tend to be ferromagnetic or ferrimagnetic below their magnetic ordering temperature, T_C. The ribbon geometry was chosen to maximize heat exchange with the environment due to its high surface-to-volume ratio. In addition to the magnetocaloric effect (MCE), they exhibit magnetovolume effects, such as the variation of T_C with pressure, which can be used to convert degraded mechanical energy into a more useful form of energy, such as electricity. From the second type, we investigated half-Heusler (Ti, Zr, Hf)NiSn alloys, which are thermoelectric materials that exhibit the Seebeck effect, allowing them to transform waste heat from certain industrial and domestic processes into electrical energy. However, thermoelectric efficiency, which can be measured using the dimensionless figure of merit ZT, is low due to the high lattice thermal conductivity, κ_L. To increase ZT, various techniques were studied, such as nanostructuring through mechanical milling, isoelectronic substitution, or doping with Sb. In the latter case, the goal is to improve ZT by increasing electrical conductivity rather than reducing κ_L.



- 2** **Project title:** Application of the Heat Equation to the Study of the Magnetocaloric Effect
Type of project: Bachelor's Thesis
Co-director of thesis: Pablo Álvarez Alonso; Javier López García
Entity: Universidad de Oviedo **Type of entity:** University
Student: Celia Martín Juan
Obtained qualification: 9
Date of reading: 24/01/2025
- 3** **Project title:** Additive Manufacturing with Magnetic Materials
Entity: Universidad de Oviedo **Type of entity:** University
Student: Alba Sanz Prada
Obtained qualification: 10
Date of reading: 10/07/2023
- 4** **Project title:** Characterization of the Magnetoelastic Transformation in Binary FeRh Alloys
Entity: Universidad de Oviedo **Type of entity:** University
Student: Kenny Padrón Alemán
Obtained qualification: 10
Date of reading: 16/06/2023
- 5** **Project title:** Perpendicular Anisotropy in Nanopatterned Magnetic Thin Films
Entity: Universidad de Oviedo **Type of entity:** University
Student: Pablo Martínez Outomuro
Obtained qualification: 10
Date of reading: 26/07/2022
- 6** **Project title:** Structure and Magnetic Properties of Shape Memory Alloys
Entity: Universidad de Oviedo **Type of entity:** University
Student: Edgar Fernández López
Obtained qualification: 9
Date of reading: 23/07/2021
- 7** **Project title:** Characterization of Fe-Pd Thin Films Produced by Evaporation
Entity: Universidad de Oviedo **Type of entity:** University
Student: Álvaro González Villegas
Obtained qualification: 9.5
Date of reading: 17/02/2020
- 8** **Project title:** Dynamic Phenomena in Amorphous Microwires
Entity: Universidad de Oviedo **Type of entity:** University
Student: Sergio Molto González
Date of reading: 28/07/2019
- 9** **Project title:** Investigation of the Magnetocaloric Effect in R₂Fe₁₇ Melt-Spun Ribbons
Entity: Universidad de Oviedo **Type of entity:** University
Student: Lucía Martínez Goyeneche
Obtained qualification: 10
Date of reading: 02/07/2019

- 10** **Project title:** Scaling Laws and Universal Behaviors in Magnetocaloric Materials
Entity: Universidad de Oviedo **Type of entity:** University
Student: José Manuel Casas González
Date of reading: 28/06/2018
- 11** **Project title:** Synthesis and Characterization of Nd(Fe, Mo)₁₂ Functional Materials
Entity: Universidad de Oviedo **Type of entity:** University
Student: Javier Rubio Álvarez
Date of reading: 25/06/2018
- 12** **Project title:** Invar Effect in FeZrBCu Amorphous Ribbons
Entity: Universidad del País Vasco **Type of entity:** University
Student: Begoña Silvan Uriarte
Date of reading: 16/07/2015
- 13** **Project title:** Development of a Measurement System for the Magnetocaloric Effect
Entity: Universidad del País Vasco **Type of entity:** University
Student: Javier López García
Date of reading: 10/07/2014

Materials and other teaching or educational publications.

- 1** Cristina Echevarria Bonet; Pablo Álvarez Alonso. A holistic gamified experience for engineers, CONFERENCE PROCEEDINGS CIVINEDU 2021. pp. 600 - 611. (Spain): REDINE (Red de Investigación e Innovación Educativa). 11/2021. Available on-line at: <<https://www.civinedu.org/conference-proceedings-2021/>>. ISBN 978-84-124511-1-5
Format: Article(s)
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Position of signature: 2
- 2** Montserrat Rivas Ardisana; Pablo Álvarez Alonso; Pedro Gorria Korres. Gamification as a Motivation Tool in the Bilingual Course "Waves and Electromagnetism", LIBRO DE ACTAS DEL XXVI Congreso Universitario de Innovación Educativa En las Enseñanzas Técnicas. pp. 600 - 611. (Spain): Universidad de Oviedo. 06/2018. Available on-line at: <<http://www.26cuieet.es/archivos/libro-de-actas.pdf>>. ISBN 978-84-17445-02-7
Legal deposit: AS 1893-2018
Format: Article(s)
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
- 3** Pablo Álvarez Alonso; Cristina Echevarria Bonet. Gamification in Pandemic Times: Redesigning a Higher Education Experience, Revista Eureka sobre enseñanza y divulgación de las ciencias. 20 - 2, pp. 2204. Andalusia (Spain): Editorial UCA. 2023. Available on-line at: <<https://revistas.uca.es/index.php/eureka/article/view/8882>>. ISSN 1697-011X
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes



Participation in innovative teaching projects

- 1** **Project title:** Experimental Physics In-Video: Revisiting Lecture Demonstrations
Type of participation: Principal investigator
Dedication regime: Full time
Time of working relationship: For a limited time
Name of the main researcher: Pablo Álvarez Alonso
Number of participants: 11
Amount awarded: 603 €
Funding entity: Universidad de Oviedo **Type of entity:** University
Participating entity/entities:
CENTRO DE ACUSTICA APLICADA Y EVALUACION NO DESTRUCTIVA
Start-End date: 25/03/2022 - 24/03/2023 **Duration:** 2 years
- 2** **Project title:** GAMING: Gamification for Engineers
Type of participation: Principal investigator
Time of working relationship: For a limited time
Funding entity: Universidad de Oviedo **Type of entity:** University
Start-End date: 23/01/2020 - 04/07/2020
- 3** **Project title:** Gamification of the Course “Waves and Electromagnetism” (Bilingual Degrees) at the School of Engineering, Gijón
Type of participation: Co-ordinator
Time of working relationship: For a limited time
Funding entity: Universidad de Oviedo **Type of entity:** University
Start-End date: 23/01/2018 - 03/07/2020
- 4** **Project title:** Implementation of a Comprehensive Gamification System in the Course “Waves and Electromagnetism” for Telecommunications Engineering Students at the School of Engineering, Gijón
Type of participation: Principal investigator
Time of working relationship: For a limited time
Funding entity: Universidad de Oviedo **Type of entity:** University
Start-End date: 22/01/2019 - 02/07/2019
- 5** **Project title:** Gamification of the Course “Waves and Electromagnetism” (Bilingual Degrees) at the Polytechnic School of Engineering, Gijón
Type of participation: Co-ordinator
Time of working relationship: For a limited time
Funding entity: Universidad de Oviedo **Type of entity:** University
Start-End date: 23/01/2018 - 02/07/2019

Participation in conferences with talks focused on teacher training

- 1** **Name of the event:** 5th International Virtual Conference on Educational Research and Innovation
Type of event: Conference
City of event: Online, Spain
Date of presentation: 29/09/2021
Organising entity: Educational Research and Innovation Network REDINE
A holistic gamified experience for engineers.
- 2** **Name of the event:** XVII Congreso Nacional CUIEET
Type of event: Conference
City of event: Gijón, Principality of Asturias, Spain
Date of presentation: 26/06/2018
Organising entity: FUNDACION UNIVERSIDAD DE OVIEDO
La ludificación como herramienta de motivación en la asignatura bilingüe Waves and Electromagnetism.

Other activities/achievements not included above

- 1** **Description of the activity:** Member of University Entrance Exam (six calls)
City of activity: Gijón-Oviedo-Avilés, Principality of Asturias, Spain
Organising entity: Universidad de Oviedo **Type of entity:** University
End date: 10/06/2024
- 2** **Description of the activity:** Physics Olympiad. Principality of Asturias Section. President of the committee
City of activity: Oviedo, Principality of Asturias, Spain
Organising entity: REAL SOCIEDAD ESPAÑOLA DE FISICA-Sección local Asturias
End date: 04/2023
- 3** **Description of the activity:** Physics Olympiad. Principality of Asturias Section. President of the committee
City of activity: Oviedo, Principality of Asturias, Spain
Organising entity: REAL SOCIEDAD ESPAÑOLA DE FISICA-Sección local Asturias
End date: 04/2022
- 4** **Description of the activity:** Physics Olympiad. Principality of Asturias Section
City of activity: Oviedo, Principality of Asturias, Spain
Organising entity: REAL SOCIEDAD ESPAÑOLA DE FISICA-Sección local Asturias
End date: 04/2019



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:** NANOMATERIALES MAGNETICOS AVANZADOS PARA ENERGIA Y SALUD. MAGNES
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Researcher
Entity where project took place: Universidad de Oviedo **Type of entity:** University
City of entity: Oviedo, Principality of Asturias, Spain
Name principal investigator (PI, Co-PI....): Pedro Gorria Korres
Nº of researchers: 21
Funding entity or bodies: FUNDACION PARA EL FOMENTO EN ASTURIAS DE LA INVESTIGACION CIENTIFICA APLICADA Y LA TECNOLOGIA
City funding entity: Principality of Asturias, Spain
Type of participation: Team member
Code according to the funding entity: SEK-25-GRU-GIC-24-113
Start-End date: 01/01/2025 - 31/12/2026 **Duration:** 2 years
Dedication regime: Full time
- 2** **Name of the project:** Searching for Enhanced Magnetocaloric Materials for Hydrogen Liquefaction by Exploiting Magnetic Anisotropy
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** National
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: Universidad de Oviedo **Type of entity:** University
City of entity: Oviedo, Principality of Asturias, Spain
Name principal investigator (PI, Co-PI....): Pablo Álvarez Alonso; Pedro Gorria Korres
Nº of researchers: 5
Funding entity or bodies: MINISTERIO DE ECONOMIA Y COMPETITIVIDAD **Type of entity:** Public Research Body
Code according to the funding entity: MCINN-23-PID2022-138256NB-C21
Start-End date: 01/01/2023 - 31/12/2025 **Duration:** 3 years
Total amount: 125.000 €
Dedication regime: Full time
- 3** **Name of the project:** Advanced Magnetic Nanomaterials for Energy and Health
Type of project: Basic research (including archaeological digs, etc) **Geographical area:** Regional
Degree of contribution: Researcher



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

City of entity: Oviedo, Principality of Asturias, Spain

Name principal investigator (PI, Co-PI....): Montserrat Rivas Ardisana

Nº of researchers: 14

Funding entity or bodies:

FUNDACION PARA EL FOMENTO EN ASTURIAS DE LA INVESTIGACION CIENTIFICA APLICADA Y LA TECNOLOGIA

City funding entity: Principality of Asturias, Spain

Type of participation: Team member

Code according to the funding entity: IDI/2021/000100

Start-End date: 01/01/2021 - 31/12/2023

Duration: 3 years

Total amount: 210.000 €

Dedication regime: Full time

4 Name of the project: Additive Manufacturing of Rotor Parts via Extrusion of Magnetic Material Filaments

Type of project: Industrial research

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

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

City of entity: Gijón/Oviedo, Principality of Asturias, Spain

Name principal investigator (PI, Co-PI....): Pablo Álvarez Alonso

Nº of researchers: 3

Nª people/year: 3

Type of participation: Principal investigator

Start-End date: 28/04/2022 - 31/08/2023

Total amount: 3.234 €

Dedication regime: Full time

5 Name of the project: Next-Generation Multifunctional Martensitic Materials for Energy Applications

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

Geographical area: National

Degree of contribution: Researcher

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

City of entity: Oviedo, Principality of Asturias, Spain

Name principal investigator (PI, Co-PI....): Pedro Gorria Korres; Jesús Ángel Blanco Rodríguez

Nº of researchers: 5

Funding entity or bodies:

MINISTERIO DE ECONOMIA Y COMPETITIVIDAD **Type of entity:** Public Research Body

Code according to the funding entity: MCIU-19-RTI2018-094683-B-C52

Start-End date: 01/01/2019 - 30/09/2022

Duration: 3 years

Total amount: 84.700 €

Dedication regime: Full time

6 Name of the project: Advanced Functional Nanomaterials

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

Geographical area: Regional

Degree of contribution: Researcher

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

City of entity: Oviedo, Principality of Asturias, Spain



Name principal investigator (PI, Co-PI....): Jesús Ángel Blanco Rodríguez

Funding entity or bodies:

FUNDACION PARA EL FOMENTO EN ASTURIAS DE LA INVESTIGACION CIENTIFICA APLICADA Y LA TECNOLOGIA

City funding entity: Principality of Asturias, Spain

Type of participation: Team member

Code according to the funding entity: IDI/2018/000185

Start-End date: 01/01/2018 - 31/12/2020

Duration: 3 years

Total amount: 166.000 €

Dedication regime: Full time

7 Name of the project: Synthesis and Physicochemical Characterization of Superparamagnetic Nanoparticles for Use in Lateral Flow Biosensors

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

Geographical area: Universidad

Degree of contribution: Researcher

Entity where project took place: Universidad de Oviedo

Type of entity: University

City of entity: Oviedo, Principality of Asturias, Spain

Name principal investigator (PI, Co-PI....): María Paz Fernández García

Nº of researchers: 3

Funding entity or bodies:

Universidad de Oviedo

Type of entity: University

City funding entity: Oviedo, Principality of Asturias, Spain

Type of participation: Team member

Code according to the funding entity: PAPI-18-EMERG-8

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

Duration: 1 year

Sub-project amount: 6.000 €

Dedication regime: Full time

8 Name of the project: Functional Properties and Nonequilibrium Processes in Shape Memory Alloys and Related Multiferroic Materials funcionales y procesos de no equilibrio en aleaciones con memoria de forma y materiales multiferroicos relacionados

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

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad de Oviedo

Type of entity: University

City of entity: Oviedo, Principality of Asturias, Spain

Name principal investigator (PI, Co-PI....): Pedro Gorria Korres; Jesús Ángel Blanco Rodríguez

Nº of researchers: 5

Funding entity or bodies:

MINISTERIO DE ECONOMIA Y COMPETITIVIDAD

Type of entity: Public Research Body

Code according to the funding entity: MINECO-15-MAT2014-56116-C4-2-R

Start-End date: 01/01/2015 - 31/12/2018

Duration: 3 years

Total amount: 109.000 €

Dedication regime: Full time

9 Name of the project: Grants to Support Research Group Activities in the Basque University System**Type of project:** Basic research (including archaeological digs, etc)**Geographical area:** Regional**Degree of contribution:** Researcher**Entity where project took place:** Universidad del País Vasco**Type of entity:** University**City of entity:** Lejona, Basque Country, Spain**Name principal investigator (PI, Co-PI....):** M^a Luisa Fernández-Gubieda Ruiz**N° of researchers:** 16**Funding entity or bodies:**

Departamento de Educación, Política Lingüística y cultura del Gobierno Vasco

Code according to the funding entity: IT711-13**Start-End date:** 08/04/2013 - 31/12/2018**Duration:** 6 years**Sub-project amount:** 443.399 €**Dedication regime:** Part time**10 Name of the project:** Advanced Magnetic Materials**Type of project:** Basic research (including archaeological digs, etc)**Geographical area:** Regional**Degree of contribution:** Researcher**Entity where project took place:** Universidad de Oviedo**Type of entity:** University**City of entity:** Oviedo, Principality of Asturias, Spain**Name principal investigator (PI, Co-PI....):** Jesús Ángel Blanco Rodríguez; Pedro Gorria Korres**N° of researchers:** 16**Funding entity or bodies:**

FUNDACION PARA EL FOMENTO EN ASTURIAS DE LA INVESTIGACION CIENTIFICA APLICADA Y LA TECNOLOGIA

City funding entity: Principality of Asturias, Spain**Code according to the funding entity:** FC-15-GRUPIN14-037**Start-End date:** 01/01/2015 - 31/12/2017**Duration:** 2 years**Total amount:** 160.000 €**Dedication regime:** Full time**11 Name of the project:** Magnetic Interactions and Interfacial Phenomena in Nanostructured Materials**Type of project:** Basic research (including archaeological digs, etc)**Geographical area:** National**Degree of contribution:** Current university student**Entity where project took place:** Universidad de Oviedo**Type of entity:** University**City of entity:** Oviedo, Principality of Asturias, Spain**Name principal investigator (PI, Co-PI....):** Pedro Gorria Korres**N° of researchers:** 11**Funding entity or bodies:**

Ministerio de Ciencia e Innovación

Type of entity: Public Research Body**City funding entity:** Spain**Type of participation:** Team member**Start-End date:** 01/01/2012 - 31/12/2014**Duration:** 3 years**Participating entity/entities:** Instituto de Ciencia de Materiales de Aragón ; Universidad de Cantabria; Universidad de Oviedo; Universidad del País Vasco



Dedication regime: Full time

Applicant's contribution: Study of the magnetocaloric effect in Fe-based alloys

12 Name of the project: Magnetic interactions and interface phenomena in nanostructured materials

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

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad del País Vasco

Type of entity: University

City of entity: Lejona, Basque Country, Spain

Name principal investigator (PI, Co-PI....): M^a Luisa Fdez-Gubieda Ruiz

N° of researchers: 11

Funding entity or bodies:

Ministerio de Ciencia e Innovación. Investigación

Type of entity: Ministerio

City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Team member

Name of the programme: Plan Nacional de I+D+i 2008-2011: Subprograma de Proyectos de Investigación Fundamental

Code according to the funding entity: MAT2011-27573-C04-03

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

Duration: 3 years

Participating entity/entities: Instituto de Ciencia de Materiales de Aragón ; Universidad de Cantabria; Universidad de Oviedo; Universidad del País Vasco

Total amount: 120.000 €

Dedication regime: Full time

13 Name of the project: Support for Consolidated Research Groups: Magnetism and Magnetic Materials Group

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

Geographical area: Regional

Degree of contribution: Researcher

Entity where project took place: Universidad del País Vasco

Type of entity: University

City of entity: Bilbao, Basque Country, Spain

Name principal investigator (PI, Co-PI....): Maria Luisa Fernández-Gubieda Ruiz

N° of researchers: 16

Funding entity or bodies:

Consejería de Educación, Universidades e Investigación del Gobierno Vasco

Type of entity: Public Research Body

City funding entity: Basque Country, Spain

Type of participation: Team member

Start-End date: 25/03/2012 - 31/12/2012

Participating entity/entities: Universidad del País Vasco

Dedication regime: Full time

14 Name of the project: New Tools to Address Size-Scaling in Magnetic Systems: Selective Spectroscopies and Related Magnetometry Techniques

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

Geographical area: National

Degree of contribution: Current university student

Entity where project took place: Universidad de Oviedo

Type of entity: University



City of entity: Oviedo, Principality of Asturias, Spain

Name principal investigator (PI, Co-PI....): Jesús Ángel Blanco Rodriguez

Nº of researchers: 9

Funding entity or bodies:

Ministerio de Ciencia e Innovación. Investigación

Type of entity: Ministerio

City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Team member

Start-End date: 01/03/2009 - 30/06/2012

Participating entity/entities: Universidad de Cantabria; Universidad de Oviedo; Universidad del País Vasco

Total amount: 388.000 €

Dedication regime: Full time

Applicant's contribution: 1- Crystal structure determination and study of the magneto-volume anomalies in R2Fe17 alloys. 2- Study of the magnetocaloric effect in amorphous ribbons and ball-milled alloys

15 Name of the project: Fabrication and Characterization of Nanomaterials and Nanocomposites with High-Temperature Magnetocaloric Effect

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

Geographical area: National

Degree of contribution: Researcher

Entity where project took place: Universidad de Oviedo

Type of entity: University

City of entity: Oviedo, Principality of Asturias, Spain

Name principal investigator (PI, Co-PI....): Pedro Gorria Korres

Nº of researchers: 8

Funding entity or bodies:

Ministerio de Ciencia e Innovación. Investigación

Type of entity: Ministerio

City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Team member

Start-End date: 01/03/2006 - 31/12/2006

Duration: 10 months

Participating entity/entities: Universidad de Oviedo; Universidad de Santiago de Compostela; Universidad del País Vasco

Total amount: 130.000 €

Dedication regime: Full time

Applicant's contribution: 1- Fabrication by ball-milling and structural and magnetic characterization of R2Fe17 alloys 2- Determination of the magnetocaloric effect in these alloys.



Scientific and technological activities

Scientific production

- 1 **H index:** 24
Date of application: 01/09/2025
Source of H-Index: WOS
- 2 **H index:** 27
Date of application: 15/05/2025
Source of H-Index: GOOGLE SCHOLAR

Publications, scientific and technical documents

- 1 **1** Mona Fadel; Pablo Alvarez Alonso; Montserrat Rivas; Ala Adawy; José Luis Sánchez Llamazares; Ricardo López Antón; Shah Qasim Jan; RRajeswari Roy Chowdhury; Darío A. Arena; Hariharan Srikanth; Jesús Ángel Blanco; Fabián Suárez García; Pedro Gorria. Carbonization driven magnetic evolution in Ni@C nanocomposites: impact on magnetic anisotropy and heating efficiency. *Materials & Design*. 259, pp. 114838. 2025. ISSN 0264-1275
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 13
Impact source: WOS (JCR)
Impact index in year of publication: 7.9
Position of publication: 68
Source of citations: WOS
Relevant publication: Yes
Format: Scientific and technical document or report
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 462
- 2 **2** Pablo Álvarez; Jorge Sánchez Marcos; Pedro Gorria; Luis Fernández Barquín; Jesús A. Blanco. Magneto-caloric effect in FeZrB amorphous alloys near room temperature. *Journal of Alloys and Compounds*. 504, pp. 150 - 154. (Holland): Elsevier, 01/09/2010. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0925838810004093>>.
DOI: 10.1016/j.jallcom.2010.02.149
Type of production: Scientific paper
Position of signature: 1
Impact source: WOS (JCR)
Impact index in year of publication: 2.289
Position of publication: 50
Source of citations: WOS
Citations: 32
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Category: Materials Science (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 232
Relevant results: The studied FeZrB amorphous ribbons have Curie temperatures close to room temperature. The refrigerant capacity is close to that of Gd. The temperature dependence of their magnetic entropy change present a universal behavior.
Relevant publication: Yes

- 3** Jesús D. Santos; Tatiana Sanchez; Pablo Alvarez; Maria L. Sanchez; Jose L. Sánchez Llamazares; Blanca Hernando; Lluís Escoda; Joan J. Suñol; Rastislav Varga. Microstructure and magnetic properties of Ni₅₀Mn₃₇Sn₁₃ Heusler alloy ribbons. Journal of Applied Physics. 103, pp. 07B326 - 07B326 -3. American Institute of Physics Inc., 20/02/2008. Available on-line at: <http://ieeexplore.ieee.org/xpl/freeabs_all.jsp?arnumber=4946993&abstractAccess=no&userType=inst>.

DOI: 10.1063/1.2832330

Type of production: Scientific paper

Position of signature: 3

Impact source: SCOPUS (SJR)

Impact index in year of publication: 1.404

Position of publication: 27

Source of citations: WOS

Format: Journal

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

Category: Physics and Astronomy (miscellaneous)

Journal in the top 25%: Yes

No. of journals in the cat.: 210

Citations: 84

Relevant results: We fabricated Ni₅₀Mn₃₇Sn₁₃ as ribbon flakes, showing a martensitic transformation with a thermal hysteresis of 15K.

Relevant publication: Yes

- 4** Garrido-Alvarez, J. L.; Llamazares, J. L. Sanchez; Gorria, Pedro; Alvarez-Alonso, P.. Magnetic properties of the Tb₂Fe₁₇ compound with the unconventional rhombohedral crystal structure. JOURNAL OF SOLID STATE CHEMISTRY. 350, ACADEMIC PRESS INC ELSEVIER SCIENCE, 01/10/2025. ISSN 0022-4596, ISSN 1095-726X

Type of production: Scientific paper

Source of citations: WOS

Format: Journal

Citations: 0

- 5** Padron-Aleman, K.; Cuello, G. J.; Puente-Orench, I.; Lopez-Garcia, J.; Arreguin-Hernandez, M. L.; Llamazares, J. L. Sanchez; Gorria, Pedro; Alvarez-Alonso, P.. Scrutinizing the sharp magnetoelastic transition and kinetic arrest in Fe₄₉Rh₅₁ alloy using neutron thermo-diffraction. JOURNAL OF MATERIALS CHEMISTRY C. 13 - 14, ROYAL SOC CHEMISTRY, 26/02/2025. ISSN 2050-7526, ISSN 2050-7534

Type of production: Scientific paper

Source of citations: WOS

Format: Journal

Citations: 1

- 6** Mona Fadel; María Salvador; Vanessa Pilati; José Carlos Martínez García; Pablo Alvarez Alonso; Montserrat Rivas. A holistic view of magnetic nanoparticles for advanced water treatment and cleanup. Journal of Physics D: Applied Physics. 58, pp. 403001. 2025. ISSN 0022-3727

Type of production: Scientific paper

Position of signature: 5

Total no. authors: 6

Impact source: WOS (JCR)

Impact index in year of publication: 3.2

Position of publication: 71

Source of citations: WOS

Relevant publication: No

Format: Scientific and technical document or report

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

Corresponding author: No

Category: Science Edition - PHYSICS, APPLIED

Journal in the top 25%: No

No. of journals in the cat.: 187

- 7** José Luis Garrido Álvarez; Maria Arreguin Hernandez; Cristina Echevarria Bonet; Pedro Gorria; Inés Puente Orench; Francois Fauth; Jesús Blanco; José Luis Sanchez Llamazares; Pablo Alvarez Alonso. Delving into the correlation between magnetic and lattice degrees of freedom from magnetocaloric and magnetovolume effects in Lu₂Fe₁₇ ribbons. The Journal of Physical Chemistry. Accepted, 2025. ISSN 1932-7447

Type of production: Scientific paper

Position of signature: 9

Format: Scientific and technical document or report

**Total no. authors:** 9**Impact source:** SCOPUS (SJR)**Impact index in year of publication:** 0.914**Position of publication:** 65**Source of citations:** WOS**Relevant publication:** No**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Electronic, Optical and Magnetic Materials**Journal in the top 25%:** Yes**No. of journals in the cat.:** 308

- 8** Padron-Aleman, K.; Rivas, M.; Martinez-Garcia, J. C.; Alvarez-Alonso, P.; Gorria, P.; Belo, J. H.; dos Santos, A. M.; Llamazares, J. L. Sanchez. Study of the magnetoelastic phase transition in near equiatomic FeRh alloys through T-FORC analysis and neutron diffraction. JOURNAL OF ALLOYS AND COMPOUNDS. 1010, ELSEVIER SCIENCE SA, 07/12/2024. ISSN 0925-8388, ISSN 1873-4669

Type of production: Scientific paper**Source of citations:** WOS**Format:** Journal**Citations:** 1

- 9** Padron-Aleman, K.; Arreguin-Hernandez, M. L.; Cuello, G. J.; Alvarez-Alonso, P.; Sanchez Llamazares, J. L.. Phase analysis of near equiatomic bulk FeRh alloys: X-ray versus neutron diffraction and magnetization measurements. MATERIALS CHEMISTRY AND PHYSICS. 327, ELSEVIER SCIENCE SA, 30/08/2024. ISSN 0254-0584, ISSN 1879-3312

Type of production: Scientific paper**Impact source:** WOS (JCR)**Impact index in year of publication:** 4.7**Position of publication:** 150**Source of citations:** WOS**Format:** Journal**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY**Journal in the top 25%:** No**No. of journals in the cat.:** 460**Citations:** 2

- 10** Alvarez-Alonso, P.; Camarillo-Garcia, J. P.; Salazar, D.; Lopez-Garcia, J.; Echevarria-Bonet, C.; Lazpitad, P.; Padron-Aleman, K.; Llamazaresa, J. L. Sanchez; Flores-Zuniga, H.; Chernenko, V.. Investigating the reversible nature of the magnetocaloric effect under cyclic conditions of the Ni₅₀Mn₃₄In₁₅Ga₁ 50 Mn 34 In 15 Ga 1 magnetic shape memory alloy. JOURNAL OF ALLOYS AND COMPOUNDS. 993, ELSEVIER SCIENCE SA, 30/04/2024. ISSN 0925-8388, ISSN 1873-4669

Type of production: Scientific paper**Impact source:** WOS (JCR)**Impact index in year of publication:** 6.3**Position of publication:** 11**Impact source:** WOS (JCR)**Impact index in year of publication:** 6.3**Position of publication:** 119**Impact source:** WOS (JCR)**Impact index in year of publication:** 6.3**Position of publication:** 52**Source of citations:** WOS**Format:** Journal**Category:** Science Edition - METALLURGY & METALLURGICAL ENGINEERING**Journal in the top 25%:** Yes**No. of journals in the cat.:** 96**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY**Journal in the top 25%:** No**No. of journals in the cat.:** 460**Category:** Science Edition - CHEMISTRY, PHYSICAL**Journal in the top 25%:** No**No. of journals in the cat.:** 185**Citations:** 0

- 11** Lopez-Garcia, J.; Khanna, D. L. R.; Llamazares, J. L. Sanchez; Alvarez-Alonso, P.; La Roca, P.; Recarte, V.; Sanchez-Alarcos, V.; Perez-Landazabal, J. I.; Rodriguez-Velamazan, J. A.. Magnetic structure analysis of the L2₁-type austenite in Ni-Mn-In alloys. INTERMETALLICS. 168, ELSEVIER SCI LTD, 04/03/2024. ISSN 0966-9795, ISSN 1879-0216

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 4.8

Position of publication: 148

Impact source: WOS (JCR)

Impact index in year of publication: 4.8

Position of publication: 15

Impact source: WOS (JCR)

Impact index in year of publication: 4.8

Position of publication: 65

Source of citations: WOS

Format: Journal

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: No

No. of journals in the cat.: 460

Category: Science Edition - METALLURGY & METALLURGICAL ENGINEERING

Journal in the top 25%: Yes

No. of journals in the cat.: 96

Category: Science Edition - CHEMISTRY, PHYSICAL

Journal in the top 25%: No

No. of journals in the cat.: 185

Citations: 4

- 12** Alvarez, J. L. Garrido; Alvarez-Alonso, P.; Sanchez-Valdes, C. F.; Blanco, J. A.; Gorria, Pedro; Llamazares, J. L. Sanchez. Exploring the magnetic and magnetocaloric behavior of nanocrystalline melt-spun R₂Fe₁₇ (R = Pr, Nd) ribbons. JOURNAL OF ALLOYS AND COMPOUNDS. 979, ELSEVIER SCIENCE SA, 20/01/2024. ISSN 0925-8388, ISSN 1873-4669

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 6.3

Position of publication: 11

Impact source: WOS (JCR)

Impact index in year of publication: 6.3

Position of publication: 119

Impact source: WOS (JCR)

Impact index in year of publication: 6.3

Position of publication: 52

Source of citations: WOS

Format: Journal

Category: Science Edition - METALLURGY & METALLURGICAL ENGINEERING

Journal in the top 25%: Yes

No. of journals in the cat.: 96

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: No

No. of journals in the cat.: 460

Category: Science Edition - CHEMISTRY, PHYSICAL

Journal in the top 25%: No

No. of journals in the cat.: 185

Citations: 4

- 13** Gul-Rodriguez, M.; Zamora, J.; Sanchez-Valdes, C. F.; Llamazares, J. L. Sanchez; Alvarez-Alonso, P.. Assessing rapid solidification processing to produce magnetocaloric RFeSi alloys (R= Tb, Dy) for natural gas liquefaction. JOURNAL OF ALLOYS AND COMPOUNDS. 978, ELSEVIER SCIENCE SA, 15/01/2024. ISSN 0925-8388, ISSN 1873-4669

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 6.3

Position of publication: 11

Impact source: WOS (JCR)

Format: Journal

Category: Science Edition - METALLURGY & METALLURGICAL ENGINEERING

Journal in the top 25%: Yes

No. of journals in the cat.: 96

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY



Impact index in year of publication: 6.3
Position of publication: 119

Impact source: WOS (JCR)
Impact index in year of publication: 6.3
Position of publication: 52

Source of citations: WOS

Journal in the top 25%: No
No. of journals in the cat.: 460

Category: Science Edition - CHEMISTRY, PHYSICAL
Journal in the top 25%: No
No. of journals in the cat.: 185

Citations: 7

- 14** Fadel, Mona; Martin-Jimeno, F. Julian; Fernandez-Garcia, M. P.; Suarez-Garcia, Fabian; Paredes, Juan Ignacio; Belo, J. H.; Araujo, J. P.; Adawy, Alaa; Martinez-Blanco, David; Alvarez-Alonso, Pablo; Blanco, Jesus A.; Gorria, Pedro. Untangling the role of the carbon matrix in the magnetic coupling of Ni@C nanoparticles with mixed FCC/HCP crystal structures. JOURNAL OF MATERIALS CHEMISTRY C. 11 - 12, pp. 4070 - 4080. ROYAL SOC CHEMISTRY, 23/02/2023. ISSN 2050-7526, ISSN 2050-7534

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 5.7
Position of publication: 111

Impact source: WOS (JCR)
Impact index in year of publication: 5.7
Position of publication: 35

Source of citations: WOS

Format: Journal

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: No
No. of journals in the cat.: 439

Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: Yes
No. of journals in the cat.: 179

Citations: 5

- 15** Salaheldeen, Mohamed; Nafady, Ayman; Abu-Dief, Ahmed M.; Diaz Crespo, Rosario; Fernandez-Garcia, Maria Paz; Andres, Juan Pedro; Lopez Anton, Ricardo; Blanco, Jesus A.; Alvarez-Alonso, Pablo. Enhancement of Exchange Bias and Perpendicular Magnetic Anisotropy in CoO/Co Multilayer Thin Films by Tuning the Alumina Template Nanohole Size. NANOMATERIALS. 12 - 15, MDPI, 01/08/2022. ISSN 2079-4991

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 5.3
Position of publication: 110

Impact source: WOS (JCR)
Impact index in year of publication: 5.3
Position of publication: 39

Impact source: WOS (JCR)

Impact index in year of publication: 5.3
Position of publication: 51

Impact source: WOS (JCR)

Impact index in year of publication: 5.3
Position of publication: 58

Source of citations: WOS

Format: Journal

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: No
No. of journals in the cat.: 344

Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: Yes
No. of journals in the cat.: 160

Category: Science Edition - NANOSCIENCE & NANOTECHNOLOGY

Journal in the top 25%: No
No. of journals in the cat.: 108

Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY

Journal in the top 25%: No
No. of journals in the cat.: 178

Citations: 25

- 16** Deltell, A.; Mohamed, Abd El-Moez A.; Alvarez-Alonso, P.; Ipatov, M.; Andres, J. P.; Gonzalez, J. A.; Sanchez, T.; Zhukov, A.; Escoda, M. L.; Sunol, J. J.; Lopez Anton, R.. Martensitic transformation, magnetic and magnetocaloric properties of Ni-Mn-Fe-Sn Heusler ribbons. JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T. 12, pp. 1091 - 1103. ELSEVIER, 31/03/2021. ISSN 2214-0697, ISSN 2238-7854

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 6.267

Position of publication: 8

Impact source: WOS (JCR)

Impact index in year of publication: 6.267

Position of publication: 99

Source of citations: WOS

Format: Journal

Category: Science Edition - METALLURGY & METALLURGICAL ENGINEERING

Journal in the top 25%: Yes

No. of journals in the cat.: 79

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: No

No. of journals in the cat.: 345

Citations: 23

- 17** Mohamed, Abd El-Moez A.; Alvarez-Alonso, Pablo; Hernando, B.. The intrinsic exchange bias effect in the LaMnO_3 and LaFeO_3 compounds. JOURNAL OF ALLOYS AND COMPOUNDS. 850, ELSEVIER SCIENCE SA, 05/01/2021. ISSN 0925-8388, ISSN 1873-4669

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 6.371

Position of publication: 5

Impact source: WOS (JCR)

Impact index in year of publication: 6.371

Position of publication: 52

Impact source: WOS (JCR)

Impact index in year of publication: 6.371

Position of publication: 96

Source of citations: WOS

Format: Journal

Category: Science Edition - METALLURGY & METALLURGICAL ENGINEERING

Journal in the top 25%: Yes

No. of journals in the cat.: 79

Category: Science Edition - CHEMISTRY, PHYSICAL

Journal in the top 25%: No

No. of journals in the cat.: 165

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: No

No. of journals in the cat.: 345

Citations: 17

- 18** Salaheldeen, Mohamed; Abu-Dief, Ahmed Mohamed; Martinez-Goyeneche, Lucia; Alzahrani, Seraj Omar; Alkhatib, Fatmah; Alvarez-Alonso, Pablo; Blanco, Jesus Angel. Dependence of the Magnetization Process on the Thickness of $\text{Fe}_{70}\text{Pd}_{30}$ Nanostructured Thin Film. MATERIALS. 13 - 24, MDPI, 01/12/2020. ISSN 1996-1944

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 3.623

Position of publication: 152

Impact source: WOS (JCR)

Impact index in year of publication: 3.623

Position of publication: 17

Impact source: WOS (JCR)

Format: Journal

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: No

No. of journals in the cat.: 334

Category: Science Edition - METALLURGY & METALLURGICAL ENGINEERING

Journal in the top 25%: Yes

No. of journals in the cat.: 80

Category: Science Edition - PHYSICS, CONDENSED MATTER

Impact index in year of publication: 3.623
Position of publication: 27

Impact source: WOS (JCR)
Impact index in year of publication: 3.623
Position of publication: 51

Impact source: WOS (JCR)
Impact index in year of publication: 3.623
Position of publication: 79

Source of citations: WOS

Journal in the top 25%: No
No. of journals in the cat.: 69

Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: No
No. of journals in the cat.: 160

Category: Science Edition - CHEMISTRY, PHYSICAL
Journal in the top 25%: No
No. of journals in the cat.: 162

Citations: 27

- 19** Salaheldeen, M.; Martinez-Goyeneche, L.; Alvarez-Alonso, P.; Fernandez, A.. Enhancement the perpendicular magnetic anisotropy of nanopatterned hard/soft bilayer magnetic antidot arrays for spintronic application. NANOTECHNOLOGY. 31 - 48, IOP PUBLISHING LTD, 27/11/2020. ISSN 0957-4484, ISSN 1361-6528

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 3.874
Position of publication: 139

Impact source: WOS (JCR)
Impact index in year of publication: 3.874
Position of publication: 44

Impact source: WOS (JCR)

Impact index in year of publication: 3.874
Position of publication: 59

Source of citations: WOS

Format: Journal

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: No
No. of journals in the cat.: 334

Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: No
No. of journals in the cat.: 160

Category: Science Edition - NANOSCIENCE & NANOTECHNOLOGY

Journal in the top 25%: No
No. of journals in the cat.: 106

Citations: 21

- 20** Sanchez Llamazares, J. L.; Zamora, J.; Sanchez-Valdes, C. F.; Alvarez-Alonso, P.. Design and fabrication of a cryogenic magnetocaloric composite by spark plasma sintering based on the RAl₂laves phases (R = Ho, Er). JOURNAL OF ALLOYS AND COMPOUNDS. 831, ELSEVIER SCIENCE SA, 05/08/2020. ISSN 0925-8388, ISSN 1873-4669

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 5.316
Position of publication: 53

Impact source: WOS (JCR)

Impact index in year of publication: 5.316
Position of publication: 6

Impact source: WOS (JCR)

Impact index in year of publication: 5.316
Position of publication: 97

Source of citations: WOS

Format: Journal

Category: Science Edition - CHEMISTRY, PHYSICAL

Journal in the top 25%: No
No. of journals in the cat.: 162

Category: Science Edition - METALLURGY & METALLURGICAL ENGINEERING

Journal in the top 25%: Yes
No. of journals in the cat.: 80

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: No
No. of journals in the cat.: 334

Citations: 18

- 21** Sanchez Llamazares, J. L.; Ibarra-Gaytan, P.; Sanchez-Valdes, C. F.; Rios-Jara, D.; Alvarez-Alonso, P.. Magnetocaloric effect in $\text{ErNi}_{2\text{}}$ melt-spun ribbons. JOURNAL OF RARE EARTHS. 38 - 6, pp. 612 - 616. ELSEVIER, 01/06/2020. ISSN 1002-0721
- Type of production:** Scientific paper
Impact source: WOS (JCR)
Impact index in year of publication: 3.712
Position of publication: 23
Source of citations: WOS
- Format:** Journal
Category: Science Edition - CHEMISTRY, APPLIED
Journal in the top 25%: No
No. of journals in the cat.: 74
Citations: 17
- 22** Villa, E.; Aguilar-Ortiz, C. O.; Nespoli, A.; Alvarez-Alonso, P.; Camarillo-Garcia, J. P.; Salazar, D.; Passaretti, F.; Flores-Zuniga, H.; Hosoda, H.; Chernenko, V. A.. Tailoring thermomechanical treatment of Ni-Fe-Ga melt-spun ribbons for elastocaloric applications. JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T. 8 - 5, pp. 4540 - 4546. ELSEVIER, 01/09/2019. ISSN 2214-0697, ISSN 2238-7854
- Type of production:** Scientific paper
Impact source: WOS (JCR)
Impact index in year of publication: 5.289
Position of publication: 5
Impact source: WOS (JCR)
Impact index in year of publication: 5.289
Position of publication: 69
Source of citations: WOS
- Format:** Journal
Category: Science Edition - METALLURGY & METALLURGICAL ENGINEERING
Journal in the top 25%: Yes
No. of journals in the cat.: 79
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 314
Citations: 13
- 23** Sanchez Llamazares, J. L.; Ibarra-Gaytan, P.; Sanchez-Valdes, C. F.; Alvarez-Alonso, Pablo; Varga, R.. Enhanced magnetocaloric effect in rapidly solidified $\text{HoNi}_{2\text{}}$ melt-spun ribbons. JOURNAL OF ALLOYS AND COMPOUNDS. 774, pp. 700 - 705. ELSEVIER SCIENCE SA, 05/02/2019. ISSN 0925-8388, ISSN 1873-4669
- Type of production:** Scientific paper
Impact source: WOS (JCR)
Impact index in year of publication: 4.65
Position of publication: 51
Impact source: WOS (JCR)
Impact index in year of publication: 4.65
Position of publication: 8
Impact source: WOS (JCR)
Impact index in year of publication: 4.65
Position of publication: 81
Source of citations: WOS
- Format:** Journal
Category: Science Edition - CHEMISTRY, PHYSICAL
Journal in the top 25%: No
No. of journals in the cat.: 159
Category: Science Edition - METALLURGY & METALLURGICAL ENGINEERING
Journal in the top 25%: Yes
No. of journals in the cat.: 79
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 314
Citations: 14
- 24** Aguilar-Ortiz, C. O.; Camarillo-Garcia, J. P.; Vergara, J.; Alvarez-Alonso, P.; Salazar, D.; Chernenko, V. A.; Flores-Zuniga, H.. Effect of solidification rate on martensitic transformation behavior and adiabatic magnetocaloric effect of $\text{Ni}_{50}\text{Mn}_{35}\text{In}_{15}$ ribbons. JOURNAL OF ALLOYS AND COMPOUNDS. 748, pp. 464 - 472. ELSEVIER SCIENCE SA, 05/06/2018. ISSN 0925-8388, ISSN 1873-4669
- Type of production:** Scientific paper
Impact source: WOS (JCR)
- Format:** Journal
Category: Science Edition - CHEMISTRY, PHYSICAL

**Impact index in year of publication:** 4.175**Position of publication:** 47**Impact source:** WOS (JCR)**Impact index in year of publication:** 4.175**Position of publication:** 6**Impact source:** WOS (JCR)**Impact index in year of publication:** 4.175**Position of publication:** 65**Source of citations:** WOS**Journal in the top 25%:** No**No. of journals in the cat.:** 148**Category:** Science Edition - METALLURGY & METALLURGICAL ENGINEERING**Journal in the top 25%:** Yes**No. of journals in the cat.:** 76**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 293**Citations:** 21

- 25** Henandez-Navarro, Fernando; Camarillo-Garcia, Juan-Pablo; Aguilar-Ortiz, Christian-Omar; Flores-Zuniga, Horacio; Rios, David; Gonzalez, Jose-Gonzalo; Alvarez-Alonso, Pablo. The influence of texture on the reversible elastocaloric effect of a polycrystalline $\text{Ni}_{50}\text{Mn}_{32}\text{In}_{16}\text{Cr}_2$ alloy. APPLIED PHYSICS LETTERS. 112 - 16, AMER INST PHYSICS, 16/04/2018. ISSN 0003-6951, ISSN 1077-3118

Type of production: Scientific paper**Impact source:** WOS (JCR)**Impact index in year of publication:** 3.521**Position of publication:** 31**Source of citations:** WOS**Format:** Journal**Category:** Science Edition - PHYSICS, APPLIED**Journal in the top 25%:** Yes**No. of journals in the cat.:** 148**Citations:** 20

- 26** Daniel-Perez, Gerardo; Sanchez Llamazares, J. L.; Alvarez-Alonso, P.; Sanchez-Valdes, C. F.; Varga, R.; Chernenko, V.; Quintana-Nedelcos, A.. Transformation behavior and magnetocaloric effect in $\text{Mn}_{1-x}\text{Cr}_x\text{CoGe}$ ($x=0.04$ and 0.11) melt-spun ribbons tailored by heat treatment. JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS. 444, pp. 263 - 269. ELSEVIER SCIENCE BV, 15/12/2017. ISSN 0304-8853, ISSN 1873-4766

Type of production: Scientific paper**Impact source:** WOS (JCR)**Impact index in year of publication:** 3.046**Position of publication:** 22**Impact source:** WOS (JCR)**Impact index in year of publication:** 3.046**Position of publication:** 82**Source of citations:** WOS**Format:** Journal**Category:** Science Edition - PHYSICS, CONDENSED MATTER**Journal in the top 25%:** No**No. of journals in the cat.:** 67**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY**Journal in the top 25%:** No**No. of journals in the cat.:** 285**Citations:** 7

- 27** Wojcik, A.; Maziarz, W.; Szczerba, M. J.; Sikora, M.; Zywczyk, A.; Aguilar-Ortiz, C. O.; Alvarez-Alonso, P.; Villa, E.; Flores-Zuniga, H.; Cesari, E.; Dutkiewicz, J.; Chernenko, V. A.. Transformation behavior and inverse caloric effects in magnetic shape memory $\text{Ni}_{44-x}\text{Cu}_x\text{Co}_6\text{Mn}_{39}\text{Sn}_{11}$ ribbons. JOURNAL OF ALLOYS AND COMPOUNDS. 721, pp. 172 - 181. ELSEVIER SCIENCE SA, 15/10/2017. ISSN 0925-8388, ISSN 1873-4669

Type of production: Scientific paper**Impact source:** WOS (JCR)**Impact index in year of publication:** 3.779**Format:** Journal**Category:** Science Edition - METALLURGY & METALLURGICAL ENGINEERING**Journal in the top 25%:** Yes

Position of publication: 4

Impact source: WOS (JCR)

Impact index in year of publication: 3.779

Position of publication: 49

Impact source: WOS (JCR)

Impact index in year of publication: 3.779

Position of publication: 62

Source of citations: WOS

No. of journals in the cat.: 75

Category: Science Edition - CHEMISTRY, PHYSICAL

Journal in the top 25%: No

No. of journals in the cat.: 147

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

No. of journals in the cat.: 285

Citations: 25

- 28** Sanchez Llamazares, J. L.; Ibarra-Gaytan, P.; Sanchez-Valdes, C. F.; Alvarez-Alonso, P.; Martinez-Iniesta, A. D.. Synthesis and magnetocaloric characterization of rapidly solidified $\text{ErMn}_{2\text{O}_7}$ melt-spun ribbons. INTERMETALLICS. 88, pp. 41 - 45. ELSEVIER SCI LTD, 01/09/2017. ISSN 0966-9795, ISSN 1879-0216

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 3.42

Position of publication: 58

Impact source: WOS (JCR)

Impact index in year of publication: 3.42

Position of publication: 6

Impact source: WOS (JCR)

Impact index in year of publication: 3.42

Position of publication: 73

Source of citations: WOS

Format: Journal

Category: Science Edition - CHEMISTRY, PHYSICAL

Journal in the top 25%: No

No. of journals in the cat.: 147

Category: Science Edition - METALLURGY & METALLURGICAL ENGINEERING

Journal in the top 25%: Yes

No. of journals in the cat.: 75

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: No

No. of journals in the cat.: 285

Citations: 5

- 29** Quintana-Nedelcos, A.; Sanchez Llamazares, J. L.; Sanchez-Valdes, C. F.; Alvarez Alonso, P.; Gorria, P.; Shamba, P.; Morley, N. A.. On the correct estimation of the magnetic entropy change across the magneto-structural transition from the Maxwell relation: Study of MnCoGeB_x alloy ribbons. JOURNAL OF ALLOYS AND COMPOUNDS. 694, pp. 1189 - 1195. ELSEVIER SCIENCE SA, 15/02/2017. ISSN 0925-8388, ISSN 1873-4669

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 3.779

Position of publication: 4

Impact source: WOS (JCR)

Impact index in year of publication: 3.779

Position of publication: 49

Impact source: WOS (JCR)

Impact index in year of publication: 3.779

Position of publication: 62

Source of citations: WOS

Format: Journal

Category: Science Edition - METALLURGY & METALLURGICAL ENGINEERING

Journal in the top 25%: Yes

No. of journals in the cat.: 75

Category: Science Edition - CHEMISTRY, PHYSICAL

Journal in the top 25%: No

No. of journals in the cat.: 147

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

No. of journals in the cat.: 285

Citations: 41

- 30** Alvarez-Alonso, P.; Aguilar-Ortiz, C. O.; Villa, E.; Nespoli, A.; Flores-Zuniga, H.; Chernenko, V. A.. Conventional and inverse elastocaloric effect in Ni-Fe-Ga and Ni-Mn-Sn ribbons. SCRIPTA MATERIALIA. 128, pp. 36 - 40. PERGAMON-ELSEVIER SCIENCE LTD, 01/02/2017. ISSN 1359-6462
- Type of production:** Scientific paper
Impact source: WOS (JCR)
- Impact index in year of publication:** 4.163
Position of publication: 3
- Impact source:** WOS (JCR)
- Impact index in year of publication:** 4.163
Position of publication: 36
- Impact source:** WOS (JCR)
- Impact index in year of publication:** 4.163
Position of publication: 57
- Source of citations:** WOS
- Format:** Journal
Category: Science Edition - METALLURGY & METALLURGICAL ENGINEERING
Journal in the top 25%: Yes
No. of journals in the cat.: 75
- Category:** Science Edition - NANOSCIENCE & NANOTECHNOLOGY
Journal in the top 25%: No
No. of journals in the cat.: 92
- Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 285
- Citations:** 34
- 31** Alvarez-Alonso, P.; Aguilar-Ortiz, C. O.; Camarillo, J. P.; Salazar, D.; Flores-Zuniga, H.; Chernenko, V. A.. Adiabatic magnetocaloric effect in Ni₅₀Mn₃₅In₁₅ ribbons. APPLIED PHYSICS LETTERS. 109 - 21, AIP Publishing, 21/11/2016. ISSN 0003-6951, ISSN 1077-3118
- Type of production:** Scientific paper
Impact source: WOS (JCR)
- Impact index in year of publication:** 3.411
Position of publication: 29
- Source of citations:** WOS
- Format:** Journal
Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: Yes
No. of journals in the cat.: 148
- Citations:** 21
- 32** Sanchez Llamazares, J. L.; Alvarez-Alonso, Pablo; Sanchez-Valdes, C. F.; Ibarra-Gaytan, P. J.; Blanco, J. A.; Gorria, Pedro. Investigating the magnetic entropy change in single-phase Y₂Fe₁₇ melt-spun ribbons. CURRENT APPLIED PHYSICS. 16 - 9, pp. 963 - 968. ELSEVIER, 01/09/2016. ISSN 1567-1739, ISSN 1878-1675
- Type of production:** Scientific paper
Impact source: WOS (JCR)
- Impact index in year of publication:** 1.971
Position of publication: 129
- Impact source:** WOS (JCR)
- Impact index in year of publication:** 1.971
Position of publication: 61
- Source of citations:** WOS
- Format:** Journal
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 275
- Category:** Science Edition - PHYSICS, APPLIED
Journal in the top 25%: No
No. of journals in the cat.: 148
- Citations:** 15
- 33** Aguilar-Ortiz, C. O.; Soto-Parra, D.; Alvarez-Alonso, P.; Lazpita, P.; Salazar, D.; Castillo-Villa, P. O.; Flores-Zuniga, H.; Chernenko, V. A.. Influence of Fe doping and magnetic field on martensitic transition in Ni-Mn-Sn melt-spun ribbons. ACTA MATERIALIA. 107, pp. 9 - 16. PERGAMON-ELSEVIER SCIENCE LTD, 01/04/2016. ISSN 1359-6454, ISSN 1873-2453
- Type of production:** Scientific paper
Impact source: WOS (JCR)
- Format:** Journal

**Impact index in year of publication:** 5.301**Position of publication:** 1**Impact source:** WOS (JCR)**Impact index in year of publication:** 5.301**Position of publication:** 35**Source of citations:** WOS**Category:** Science Edition - METALLURGY & METALLURGICAL ENGINEERING**Journal in the top 25%:** Yes**No. of journals in the cat.:** 74**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 275**Citations:** 70

- 34** Alvarez-Alonso, P.; Sanchez Llamazares, J. L.; Sanchez-Valdes, C. F.; Fdez-Gubieda, M. L.; Gorria, Pedro; Blanco, J. A.. High-magnetic field characterization of magnetocaloric effect in FeZrB(Cu) amorphous ribbons. JOURNAL OF APPLIED PHYSICS. 117 - 17, AIP Publishing, 07/05/2015. ISSN 0021-8979, ISSN 1089-7550

Type of production: Scientific paper**Impact source:** WOS (JCR)**Impact index in year of publication:** 2.101**Position of publication:** 47**Source of citations:** WOS**Format:** Journal**Category:** Science Edition - PHYSICS, APPLIED**Journal in the top 25%:** No**No. of journals in the cat.:** 145**Citations:** 26

- 35** Ibarra-Gaytan, P. J.; Sanchez Llamazares, J. L.; Alvarez-Alonso, Pablo; Sanchez-Valdes, C. F.; Gorria, Pedro; Blanco, J. A.. Magnetic entropy table-like shape in RNi₂ composites for cryogenic refrigeration. JOURNAL OF APPLIED PHYSICS. 117 - 17, AMER INST PHYSICS, 07/05/2015. ISSN 0021-8979, ISSN 1089-7550

Type of production: Scientific paper**Impact source:** WOS (JCR)**Impact index in year of publication:** 2.101**Position of publication:** 47**Source of citations:** WOS**Format:** Journal**Category:** Science Edition - PHYSICS, APPLIED**Journal in the top 25%:** No**No. of journals in the cat.:** 145**Citations:** 26

- 36** Sanchez Llamazares, J. L.; Flores-Zuniga, H.; Alvarez-Alonso, Pablo; Sanchez-Valdes, C. F.; Lara Rodriguez, G. A.; Fernandez-Gubieda, M. L.. Magnetocaloric properties of rapidly solidified Dy₃Co alloy ribbons. JOURNAL OF APPLIED PHYSICS. 117 - 17, AMER INST PHYSICS, 07/05/2015. ISSN 0021-8979, ISSN 1089-7550

Type of production: Scientific paper**Impact source:** WOS (JCR)**Impact index in year of publication:** 2.101**Position of publication:** 47**Source of citations:** WOS**Format:** Journal**Category:** Science Edition - PHYSICS, APPLIED**Journal in the top 25%:** No**No. of journals in the cat.:** 145**Citations:** 3

- 37** Pablo Álvarez Alonso; Anabel Pérez Checa; Iván Rodríguez Aseguinolaza; Javier Alonso; Andrey Svalov; Volodymyr A. Chernenko; J. Manuel Barandiarán. Fabrication of patterned ferromagnetic shape memory thin films. Key Engineering Materials. 644, pp. 219 - 222. 2015. Available on-line at: <<http://www.scientific.net/KEM.644.219>>. ISSN 1662-9795

DOI: 10.4028/www.scientific.net/KEM.644.219**Type of production:** Scientific paper**Position of signature:** 1**Impact source:** SCOPUS (SJR)**Format:** Journal**Degree of contribution:** Author or co-author of article in journal without external admissions assessment committee**Category:** Materials Science (miscellaneous)

**Impact index in year of publication:** 0.194**Position of publication:** 326**Relevant publication:** No**Journal in the top 25%:** No**No. of journals in the cat.:** 529

- 38** Elena Villa; Christian Omar Aguilar Ortiz; Pablo Alvarez-Alonso; Juan Pablo Camarillo; G.A. Lara Rodriguez; Horacio Flores Zúñiga; Volodymyr Chernenko. Shape memory behavior of Ni-Fe-Ga and Ni-Mn-Sn ribbons. ESOMAT 2015 - 10TH EUROPEAN SYMPOSIUM ON MARTENSITIC TRANSFORMATIONS. 33 - 05009, 2015.

DOI: 10.1051/mateconf/20153305009**Type of production:** Scientific paper**Position of signature:** 4**Total no. authors:** 7**Source of citations:** WOS**Relevant publication:** No**Format:** Scientific and technical document or report**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Citations:** 5

- 39** Pablo Álvarez Alonso; Javier López García; Gerardo Daniel Pérez; Daniel Salazar; Patricia Lázpita; Juan Pablo Camarillo; Horacio Flores Zúñiga; David Rios Jara; Jose Luis Sánchez Llamazares; Volodymyr A. Chernenko. Simple set-up for adiabatic measurements of magnetocaloric effect. Key Engineering Materials. 644, pp. 215 - 218. 2015. Available on-line at: <<http://www.scientific.net/KEM.644.215>>. ISSN 1662-9795

DOI: 10.4028/www.scientific.net/KEM.644.215**Type of production:** Scientific paper**Position of signature:** 1**Impact source:** SCOPUS (SJR)**Impact index in year of publication:** 0.194**Position of publication:** 326**Source of citations:** Google Scholar**Relevant results:** This work is part of the project of a degree student that Pablo Alvarez has supervised.**Relevant publication:** No**Format:** Journal**Degree of contribution:** Author or co-author of article in journal without external admissions assessment committee**Category:** Materials Science (miscellaneous)**Journal in the top 25%:** No**No. of journals in the cat.:** 529**Citations:** 12

- 40** Pablo Álvarez Alonso; Pedro Gorria Korres; Inés Puente Orench; José Luis Sánchez Llamazares; Victorino Franco; Marian Reiffers; Jesús A. Blanco. Optimizing the Curie temperature of pseudo-binary RxR'_2-xFe_{17} (R, R' = rare earth) for magnetic refrigeration. Journal of Physics: Conference Series. 549, pp. 012019. (United Kingdom): Institute of Physics Publishing, 17/11/2014. Available on-line at: <<http://iopscience.iop.org/1742-6596/251/1/012012/>>.

DOI: 10.1088/1742-6596/549/1/012019**Type of production:** Scientific paper**Position of signature:** 1**Impact source:** SCOPUS (SJR)**Impact index in year of publication:** 0.25**Position of publication:** 129**Source of citations:** WOS**Relevant publication:** No**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Category:** Physics and Astronomy (miscellaneous)**Journal in the top 25%:** No**No. of journals in the cat.:** 210**Citations:** 2

- 41** Pablo Alvarez-Alonso; Jose Luis Sánchez Llamazares; César Sánchez-Valdés; Gabriel J. Cuello; Victorino Franco; Pedro Gorria; Jesús A. Blanco. On the broadening of the magnetic entropy change due to Curie temperature distribution. Journal of Applied Physics. 115 - 17, pp. 17A929. (United States of America): American Institute of Physics Inc., 05/07/2014.

**DOI:** 10.1063/1.4867346**Type of production:** Scientific paper**Position of signature:** 1**Impact source:** SCOPUS (SJR)**Impact index in year of publication:** 0.990**Position of publication:** 47**Source of citations:** WOS**Relevant publication:** No**Format:** Scientific and technical document or report**Degree of contribution:** Author or co-author of article in journal without external admissions assessment committee**Category:** Physics and Astronomy (miscellaneous)**Journal in the top 25%:** Yes**No. of journals in the cat.:** 210**Citations:** 22

- 42** Sanchez-Valdes, C. F.; Ibarra-Gaytan, P. J.; Sanchez Llamazares, J. L.; Avalos-Borja, M.; Alvarez-Alonso, Pablo; Gorria, Pedro; Blanco, J. A.. Enhanced refrigerant capacity in two-phase nanocrystalline/amorphous NdPrFe₁₇ melt-spun ribbons. APPLIED PHYSICS LETTERS. 104 - 21, AMER INST PHYSICS, 26/05/2014. ISSN 0003-6951, ISSN 1077-3118

Type of production: Scientific paper**Impact source:** WOS (JCR)**Impact index in year of publication:** 3.302**Position of publication:** 21**Source of citations:** WOS**Format:** Journal**Category:** Science Edition - PHYSICS, APPLIED**Journal in the top 25%:** Yes**No. of journals in the cat.:** 144**Citations:** 42

- 43** Gerardo Daniel-Pérez; Jose L. Sánchez Llamazares; Aris Quintana-Nedelcos; Pablo Álvarez-Alonso; Rastislav Varga; Volodymyr Chernenko. Magnetostructural transition and magnetocaloric effect in MnNiGe_{1.05} melt-spun ribbons. Journal of Applied Physics. 115, pp. 17A920. (United States of America): American Institute of Physics Inc., 05/2014.

DOI: 10.1063/1.4864435**Type of production:** Scientific paper**Position of signature:** 5**Impact source:** SCOPUS (SJR)**Impact index in year of publication:** 0.990**Position of publication:** 47**Source of citations:** WOS**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Category:** Physics and Astronomy (miscellaneous)**Journal in the top 25%:** Yes**No. of journals in the cat.:** 210**Citations:** 16**Relevant results:** It is the result of a stay in the Instituto Potosino de Investigación Científica y Tecnológica (Mexico) and that I was the researcher tutor of a student of this institution.**Relevant publication:** No

- 44** Lago, J.; Zivkovic, I.; Piatek, J. O.; Alvarez, P.; Huevonen, D.; Pratt, F. L.; Diaz, M.; Rojo, T.. Glassy dynamics in the low-temperature inhomogeneous ferromagnetic phase of the quantum spin ice Yb₂Sn₂O₇. PHYSICAL REVIEW B. 89 - 2, AMER PHYSICAL SOC, 30/01/2014. ISSN 2469-9950, ISSN 2469-9969

Type of production: Scientific paper**Impact source:** WOS (JCR)**Impact index in year of publication:** 3.736**Position of publication:** 14**Source of citations:** WOS**Format:** Journal**Category:** Science Edition - PHYSICS, CONDENSED MATTER**Journal in the top 25%:** Yes**No. of journals in the cat.:** 67**Citations:** 22



- 45** Alvarez-Alonso, Pablo; Gorria, Pedro; Sanchez Marcos, Jorge; Sanchez Llamazares, Jose L.; Blanco, Jesus A.. The magnetocaloric effect in $\text{Er}_{0.98}\text{Fe}_{1.02}$ near the magnetic phase transition. JOURNAL OF PHYSICS-CONDENSED MATTER. 25 - 49, IOP PUBLISHING LTD, 11/12/2013. ISSN 0953-8984, ISSN 1361-648X
Type of production: Scientific paper **Format:** Journal
Impact source: WOS (JCR) **Category:** Science Edition - PHYSICS, CONDENSED MATTER
Impact index in year of publication: 2.223 **Journal in the top 25%:** No
Position of publication: 22 **No. of journals in the cat.:** 67
Source of citations: WOS **Citations:** 15
- 46** Alvarez-Alonso, Pablo; Gorria, Pedro; Sanchez Llamazares, Jose L.; Cuello, Gabriel J.; Orench, Ines Puente; Sanchez Marcos, Jorge; Garbarino, Gaston; Reiffers, M.; Blanco, Jesus A.. Exploring the magneto-volume anomalies in $\text{Dy}_2\text{Fe}_{17}$ with unconventional rhombohedral crystal structure. ACTA MATERIALIA. 61 - 20, pp. 7931 - 7937. PERGAMON-ELSEVIER SCIENCE LTD, 01/12/2013. ISSN 1359-6454, ISSN 1873-2453
Type of production: Scientific paper **Format:** Journal
Impact source: WOS (JCR) **Category:** Science Edition - METALLURGY & METALLURGICAL ENGINEERING
Impact index in year of publication: 3.94 **Journal in the top 25%:** Yes
Position of publication: 1 **No. of journals in the cat.:** 75
Impact source: WOS (JCR) **Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Impact index in year of publication: 3.94 **Journal in the top 25%:** Yes
Position of publication: 35 **No. of journals in the cat.:** 251
Source of citations: WOS **Citations:** 18
- 47** Alvarez-Alonso, Pablo; Santos, J. D.; Perez, Maria J.; Sanchez-Valdes, C. F.; Sanchez Llamazares, J. L.; Gorria, Pedro. The substitution effect of chromium on the magnetic properties of $(\text{Fe}_{1-x}\text{Cr}_x)_{80}\text{Si}_6\text{B}_{14}$ metallic glasses ($0.02 \leq x \leq 0.14$). JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS. 347, pp. 75 - 78. ELSEVIER, 01/12/2013. ISSN 0304-8853, ISSN 1873-4766
Type of production: Scientific paper **Format:** Journal
Impact source: WOS (JCR) **Category:** Science Edition - PHYSICS, CONDENSED MATTER
Impact index in year of publication: 2.002 **Journal in the top 25%:** No
Position of publication: 27 **No. of journals in the cat.:** 67
Impact source: WOS (JCR) **Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Impact index in year of publication: 2.002 **Journal in the top 25%:** No
Position of publication: 78 **No. of journals in the cat.:** 251
Source of citations: WOS **Citations:** 23
- 48** Ibarra-Gaytan, P. J.; Sanchez-Valdes, C. F.; Sanchez Llamazares, J. L.; Alvarez-Alonso, Pablo; Gorria, Pedro; Blanco, J. A.. Texture-induced enhancement of the magnetocaloric response in melt-spun DyNi_2 ribbons. APPLIED PHYSICS LETTERS. 103 - 15, AMER INST PHYSICS, 07/10/2013. ISSN 0003-6951, ISSN 1077-3118
Type of production: Scientific paper **Format:** Journal
Impact source: WOS (JCR) **Category:** Science Edition - PHYSICS, APPLIED
Impact index in year of publication: 3.515 **Journal in the top 25%:** Yes

**Position of publication:** 20**No. of journals in the cat.:** 136**Source of citations:** WOS**Citations:** 54

- 49** Alvarez, Pablo; Gorria, Pedro; Sanchez Llamazares, Jose L.; Blanco, Jesus A.. Searching the conditions for a *table-like* shape of the magnetic entropy in magneto-caloric materials. JOURNAL OF ALLOYS AND COMPOUNDS. 568, pp. 98 - 101. ELSEVIER SCIENCE SA, 15/08/2013. ISSN 0925-8388, ISSN 1873-4669

Type of production: Scientific paper**Format:** Journal**Impact source:** WOS (JCR)**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY**Impact index in year of publication:** 2.726**Journal in the top 25%:** Yes**Position of publication:** 49**No. of journals in the cat.:** 251**Impact source:** WOS (JCR)**Category:** Science Edition - METALLURGY & METALLURGICAL ENGINEERING**Impact index in year of publication:** 2.726**Journal in the top 25%:** Yes**Position of publication:** 5**No. of journals in the cat.:** 75**Impact source:** WOS (JCR)**Category:** Science Edition - CHEMISTRY, PHYSICAL**Impact index in year of publication:** 2.726**Journal in the top 25%:** No**Position of publication:** 53**No. of journals in the cat.:** 136**Source of citations:** WOS**Citations:** 45

- 50** Sanchez-Valdes, C. F.; Sanchez Llamazares, J. L.; Flores-Zuniga, H.; Rios-Jara, D.; Alvarez-Alonso, P.; Gorria, Pedro. Magnetocaloric effect in melt-spun MnCoGe ribbons. SCRIPTA MATERIALIA. 69 - 3, pp. 211 - 214. PERGAMON-ELSEVIER SCIENCE LTD, 01/08/2013. ISSN 1359-6462

Type of production: Scientific paper**Format:** Journal**Impact source:** WOS (JCR)**Category:** Science Edition - NANOSCIENCE & NANOTECHNOLOGY**Impact index in year of publication:** 2.968**Journal in the top 25%:** No**Position of publication:** 26**No. of journals in the cat.:** 73**Impact source:** WOS (JCR)**Category:** Science Edition - METALLURGY & METALLURGICAL ENGINEERING**Impact index in year of publication:** 2.968**Journal in the top 25%:** Yes**Position of publication:** 3**No. of journals in the cat.:** 75**Impact source:** WOS (JCR)**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY**Impact index in year of publication:** 2.968**Journal in the top 25%:** Yes**Position of publication:** 43**No. of journals in the cat.:** 251**Source of citations:** WOS**Citations:** 42

- 51** Jose L. Sánchez Llamazares; César Sánchez-Valdes; Pablo J. Ibarra-Gaytan; Pablo Álvarez-Alonso; Pedro Gorria; Jesús A. Blanco. Magnetic entropy change and refrigerant capacity of rapidly solidified TbNi₂ alloy ribbons. Journal of Applied Physics. 113, pp. 17A912 - 17A912-3. (United States of America): American Institute of Physics Inc., 13/03/2013. Available on-line at: <<http://scitation.aip.org/content/aip/journal/jap/113/17/10.1063/1.4794988>>.

DOI: 10.1063/1.4794988**Type of production:** Scientific paper**Format:** Journal**Position of signature:** 4**Degree of contribution:** Author or co-author of reserved scientific or technical document**Impact source:** SCOPUS (SJR)**Category:** Physics and Astronomy (miscellaneous)

**Impact index in year of publication:** 0.990**Position of publication:** 47**Source of citations:** WOS**Journal in the top 25%:** Yes**No. of journals in the cat.:** 210**Citations:** 19**Relevant results:** It is the result of a collaboration with a group in the Instituto Potosino de Investigación Científica y Tecnológica (Mexico)**Relevant publication:** No

- 52** Jose L. Sánchez Llamazares; Pablo J. Ibarra-Gaytan; César Sánchez-Valdes; Pablo Álvarez-Alonso; Pedro Gorria; Jesús A. Blanco. Magnetocaloric effect in RNi₂ melt-spun ribbons (R= Dy, Tb). 6TH IIR/IIF INTERNATIONAL CONFERENCE ON MAGNETIC REFRIGERATION (THERMAG VI). pp. 137 - 138. (Canada): 13/03/2013.

DOI: 10.1016/j.jre.2019.07.011**Type of production:** Scientific paper**Position of signature:** 4**Format:** Journal**Degree of contribution:** Author or co-author of reserved scientific or technical document**Relevant publication:** No

- 53** Alvarez-Alonso, Pablo; Gorria, Pedro; Blanco, Jesus A.; Sanchez-Marcos, Jorge; Cuello, Gabriel J.; Puente-Orench, Ines; Alberto Rodriguez-Velamazán, Jose; Garbarino, Gaston; de Pedro, Imanol; Rodriguez Fernandez, Jesus; Sanchez Llamazares, Jose L.. Magnetovolume and magnetocaloric effects in Er₂Fe₁₇. PHYSICAL REVIEW B. 86 - 18, AMER PHYSICAL SOC, 09/11/2012. ISSN 2469-9950, ISSN 2469-9969

Type of production: Scientific paper**Impact source:** WOS (JCR)**Format:** Journal**Category:** Science Edition - PHYSICS, CONDENSED MATTER**Impact index in year of publication:** 3.767**Position of publication:** 15**Journal in the top 25%:** Yes**No. of journals in the cat.:** 68**Source of citations:** WOS**Citations:** 54

- 54** Alvarez, Pablo; Gorria, Pedro; Sanchez Llamazares, Jose L.; Perez, Maria J.; Franco, Victorino; Reiffers, Marian; Kovac, Jozef; Puente-Orench, Ines; Blanco, Jesus A.. Magneto-caloric effect in the pseudo-binary intermetallic YPrFe₁₇ compound. MATERIALS CHEMISTRY AND PHYSICS. 131 - 1-2, pp. 18 - 22. ELSEVIER SCIENCE SA, 15/12/2011. ISSN 0254-0584, ISSN 1879-3312

Type of production: Scientific paper**Impact source:** WOS (JCR)**Format:** Journal**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY**Impact index in year of publication:** 2.234**Position of publication:** 51**Journal in the top 25%:** Yes**No. of journals in the cat.:** 232**Source of citations:** WOS**Citations:** 10

- 55** Alvarez, Pablo; Sanchez Llamazares, Jose L.; Gorria, Pedro; Blanco, Jesus A.. Enhanced refrigerant capacity and magnetic entropy flattening using a two-amorphous FeZrB(Cu) composite. APPLIED PHYSICS LETTERS. 99 - 23, AMER INST PHYSICS, 05/12/2011. ISSN 0003-6951, ISSN 1077-3118

Type of production: Scientific paper**Impact source:** WOS (JCR)**Format:** Journal**Category:** Science Edition - PHYSICS, APPLIED**Impact index in year of publication:** 3.844**Position of publication:** 17**Journal in the top 25%:** Yes**No. of journals in the cat.:** 125**Source of citations:** WOS**Citations:** 95

- 56** Pablo Álvarez Alonso; Pedro Gorria Korres; Jorge Sánchez Marcos; Inés Puente Orench; Jose Alberto Rodríguez Velamazán; Gabriel J. Cuello; Jose Luis Sánchez Llamazares; Jesús Ángel blanco. Magnetic structure and magneto-volume anomalies in Er₂Fe₁₇ compound. Journal of Physics: Conference Series. 325, pp. 012011. (United Kingdom): Institute of Physics Publishing, 15/10/2011.

DOI: 10.1088/1742-6596/325/1/012011

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 8

Impact source: SCOPUS (SJR)

Impact index in year of publication: 0.256

Position of publication: 134

Source of citations: WOS

Relevant publication: No

Format: Journal

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

Category: Physics and Astronomy (miscellaneous)

Journal in the top 25%: No

No. of journals in the cat.: 210

Citations: 5

- 57** Alvarez, P.; Gorria, P.; Blanco, J. A.. Influence of magnetic fluctuations in the magnetocaloric effect on rare-earth intermetallic compounds. PHYSICAL REVIEW B. 84 - 2, AMER PHYSICAL SOC, 08/07/2011. ISSN 1098-0121, ISSN 1550-235X

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 3.691

Position of publication: 13

Source of citations: WOS

Format: Journal

Category: Science Edition - PHYSICS, CONDENSED MATTER

Journal in the top 25%: Yes

No. of journals in the cat.: 69

Citations: 19

- 58** Alvarez, Pablo; Gorria, Pedro; Sanchez Llamazares, Jose L.; Perez, Maria J.; Franco, Victorino; Reiffers, Marian; Curlik, Ivan; Gazo, Emil; Kovac, Jozef; Blanco, Jesus A.. Magnetic properties and magneto-caloric effect in pseudo-binary intermetallic (Ce,R)₂Fe₁₇ compounds (R = Y, Pr and Dy). INTERMETALLICS. 19 - 7, pp. 982 - 987. ELSEVIER SCI LTD, 01/07/2011. ISSN 0966-9795, ISSN 1879-0216

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 1.649

Position of publication: 8

Impact source: WOS (JCR)

Impact index in year of publication: 1.649

Position of publication: 82

Impact source: WOS (JCR)

Impact index in year of publication: 1.649

Position of publication: 87

Source of citations: WOS

Format: Journal

Category: Science Edition - METALLURGY & METALLURGICAL ENGINEERING

Journal in the top 25%: Yes

No. of journals in the cat.: 75

Category: Science Edition - CHEMISTRY, PHYSICAL

Journal in the top 25%: No

No. of journals in the cat.: 134

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: No

No. of journals in the cat.: 232

Citations: 30

- 59** Alvarez, Pablo; Gorria, Pedro; Sanchez Marcos, Jorge; Fernandez Barquin, Luis; Blanco, Jesus A.. The role of boron on the magneto-caloric effect of FeZrB metallic glasses. INTERMETALLICS. 18 - 12, pp. 2464 - 2467. ELSEVIER SCI LTD, 01/12/2010. ISSN 0966-9795

Type of production: Scientific paper

Impact source: WOS (JCR)

Format: Journal

**Impact index in year of publication:** 2.335**Position of publication:** 4**Impact source:** WOS (JCR)**Impact index in year of publication:** 2.335**Position of publication:** 46**Impact source:** WOS (JCR)**Impact index in year of publication:** 2.335**Position of publication:** 57**Source of citations:** WOS**Category:** Science Edition - METALLURGY & METALLURGICAL ENGINEERING**Journal in the top 25%:** Yes**No. of journals in the cat.:** 76**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 225**Category:** Science Edition - CHEMISTRY, PHYSICAL**Journal in the top 25%:** No**No. of journals in the cat.:** 127**Citations:** 36

- 60** Pablo Álvarez; Jorge Sánchez Marcos; Jose L. Sánchez Llamazares; Victorino Franco; Marian Reiffers; Jesús A. Blanco; Pedro Gorria. Magnetocaloric effect in nanostructured Pr₂Fe₁₇ and Nd₂Fe₁₇ synthesized by high-energy ball-milling. Acta Physica Polonica A. 118, pp. 867 - 869. (Poland): Polish Acad. Sciences Inst Physics, 11/2010. Available on-line at: <<http://przyrbwn.icm.edu.pl/APP/ABSTR/118/a118-5-62.html>>.

Type of production: Scientific paper**Position of signature:** 1**Impact source:** WOS (JCR)**Impact index in year of publication:** 0.444**Position of publication:** 65**Source of citations:** WOS**Relevant publication:** No**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Category:** Science Edition - PHYSICS, MULTIDISCIPLINARY**Journal in the top 25%:** No**No. of journals in the cat.:** 84**Citations:** 6

- 61** Alvarez, Pablo; Gorria, Pedro; Franco, Victorino; Sanchez Marcos, Jorge; Perez, Maria J.; Sanchez Llamazares, Jose L.; Puente Orench, Ines; Blanco, Jesus A.. Nanocrystalline Nd₂Fe₁₇ synthesized by high-energy ball milling: crystal structure, microstructure and magnetic properties. JOURNAL OF PHYSICS-CONDENSED MATTER. 22 - 21, IOP PUBLISHING LTD, 02/06/2010. ISSN 0953-8984

Type of production: Scientific paper**Impact source:** WOS (JCR)**Impact index in year of publication:** 2.332**Position of publication:** 18**Source of citations:** WOS**Format:** Journal**Category:** Science Edition - PHYSICS, CONDENSED MATTER**Journal in the top 25%:** No**No. of journals in the cat.:** 68**Citations:** 56

- 62** Pedro Gorria Korres; Pablo Álvarez Alonso; Jorge Sánchez Marcos; Jose Luis Sánchez Llamazares; Jesús A. Blanco. Nanocrystalline Pr₂Fe₁₇ studied by neutron powder diffraction. Journal of Physics: Conference Series. 325, pp. 012011. (United Kingdom): Institute of Physics Publishing, 2010. Available on-line at: <<http://iopscience.iop.org/1742-6596/251/1/012012/>>.

DOI: 10.1088/1742-6596/251/1/012012**Type of production:** Scientific paper**Position of signature:** 2**Impact source:** SCOPUS (SJR)**Impact index in year of publication:** 0.25**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Category:** Physics and Astronomy (miscellaneous)**Journal in the top 25%:** No

**Position of publication:** 129**No. of journals in the cat.:** 210**Relevant publication:** No

- 63** J .L. Sánchez Llamazares; M. J. Pérez; P. Álvarez; J.D. Santos; M.L. Sánchez; B. Hernando; J.A. Blanco; J. Sánchez Marcos; P. Gorria. The effect of ball milling in the microstructure and magnetic properties of Pr₂Fe₁₇ compound. Journal of Alloys and Compounds. 483, pp. 682 - 685. (Holland): Elsevier BV., 01/08/2009. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0925838808018690>>.

DOI: 0.1016/j.jallcom.2008.07.210**Type of production:** Scientific paper**Position of signature:** 3**Total no. authors:** 9**Impact source:** WOS (JCR)**Impact index in year of publication:** 2.289**Position of publication:** 50**Source of citations:** WOS**Relevant publication:** No**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Category:** Materials Science (miscellaneous)**Journal in the top 25%:** Yes**No. of journals in the cat.:** 232**Citations:** 11

- 64** Gorria, Pedro; Alvarez, Pablo; Sanchez Marcos, Jorge; Sanchez Llamazares, Jose L.; Perez, Maria J.; Blanco, Jesus A.. Crystal structure, magnetocaloric effect and magnetovolume anomalies in nanostructured Pr₂Fe₁₇. ACTA MATERIALIA. 57 - 6, pp. 1724 - 1733. PERGAMON-ELSEVIER SCIENCE LTD, 01/04/2009. ISSN 1359-6454, ISSN 1873-2453

Type of production: Scientific paper**Impact source:** WOS (JCR)**Impact index in year of publication:** 3.76**Position of publication:** 1**Impact source:** WOS (JCR)**Impact index in year of publication:** 3.76**Position of publication:** 27**Source of citations:** WOS**Format:** Journal**Category:** Science Edition - METALLURGY & METALLURGICAL ENGINEERING**Journal in the top 25%:** Yes**No. of journals in the cat.:** 70**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 214**Citations:** 72

- 65** Pablo Álvarez; Jose L. Sánchez Llamazares; Maria J. Pérez; Blanca Hernando; Jesús D. Santos; Jorge Sánchez Marcos; Jesús A. Blanco; Pedro Gorria. Microstructural and magnetic characterization of Nd₂Fe₁₇ ball milled alloys. Journal of Non-Crystalline Solids. 354, pp. 5172 - 5174. Elsevier, 01/12/2008. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0022309308006595>>.

DOI: 10.1016/j.jnoncrysol.2008.08.020**Type of production:** Scientific paper**Position of signature:** 1**Impact source:** WOS (JCR)**Impact index in year of publication:** 1.537**Position of publication:** 93**Source of citations:** WOS**Relevant publication:** No**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY**Journal in the top 25%:** Yes**No. of journals in the cat.:** 232**Citations:** 15

- 66** Maria L. Sánchez; Tatiana Sánchez; Iván Ribot; María J. Pérez; Jesús D. Santos; Jose L. Sánchez Llamazares; Víctor M. Prida; Pablo Alvarez; Blanca Hernando; Lluís Escoda; Joan. J. Suñol. Off-diagonal Magnetoimpedance effect in Fe₈₀B₂₀ Amorphous Ribbons. Journal of Non-Crystalline Solids. 354, pp. 5147 - 5149. (Holland): Elsevier, 01/12/2008. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0022309308006510>>.

DOI: 10.1016/j.jnoncrysol.2008.05.081

Type of production: Scientific paper

Position of signature: 8

Impact source: WOS (JCR)

Impact index in year of publication: 1.537

Position of publication: 93

Source of citations: SCOPUS

Relevant publication: No

Format: Journal

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

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

No. of journals in the cat.: 232

Citations: 2

- 67** Gorria, Pedro; Llamazares, Jose L. Sanchez; Alvarez, Pablo; Perez, Maria Jose; Marcos, Jorge Sanchez; Blanco, Jesus A.. Relative cooling power enhancement in magneto-caloric nanostructured Pr₂Fe₁₇. JOURNAL OF PHYSICS D-APPLIED PHYSICS. 41 - 19, IOP PUBLISHING LTD, 07/10/2008. ISSN 0022-3727

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 2.104

Position of publication: 26

Source of citations: WOS

Format: Journal

Category: Science Edition - PHYSICS, APPLIED

Journal in the top 25%: No

No. of journals in the cat.: 95

Citations: 128

- 68** Jesús D. Santos; Alberto Ruiz; Raúl F. Cobos; Iván Ribot; Víctor Vega; Pablo Alvarez; Maria L. Sanchez; Jose L. Sánchez Llamazares; Víctor M. de la Prida; Blanca Hernando. Domain wall dynamics in Fe-rich glass covered amorphous microwires. Physica Status Solidi A-Applications and Materials Science. 206, pp. 618 - 621. (Germany): Wiley-VCH Verlag, 16/06/2008. Available on-line at: <<http://onlinelibrary.wiley.com/doi/10.1002/pssa.200881255/abstract>>.

DOI: 10.1002/pssa.200881255

Type of production: Scientific paper

Position of signature: 6

Impact source: SCOPUS (SJR)

Impact index in year of publication: 0.704

Position of publication: 30

Source of citations: WOS

Relevant publication: No

Format: Journal

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

Category: Electronic, Optical and Magnetic Materials

Journal in the top 25%: No

No. of journals in the cat.: 105

Citations: 10

- 69** Hernando, B.; Prida, V. M.; Sanchez, M. L.; Olivera, J.; Garcia, C.; Santos, J. D.; Alvarez, P.; Sanchez Li, J. L.; Perov, N.. Thermal annealing dependence of high-frequency magnetoimpedance in amorphous and nanocrystalline FeSiBCuNb ribbons. JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY. 8 - 6, pp. 2873 - 2882. AMER SCIENTIFIC PUBLISHERS, 01/06/2008. ISSN 1533-4880, ISSN 1533-4899

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 1.929

Position of publication: 16

Format: Journal

Category: Science Edition - PHYSICS, CONDENSED MATTER

Journal in the top 25%: No

No. of journals in the cat.: 62

Impact source: WOS (JCR)

Impact index in year of publication: 1.929

Position of publication: 23

Impact source: WOS (JCR)

Impact index in year of publication: 1.929

Position of publication: 29

Impact source: WOS (JCR)

Impact index in year of publication: 1.929

Position of publication: 42

Impact source: WOS (JCR)

Impact index in year of publication: 1.929

Position of publication: 48

Source of citations: WOS

Category: Science Edition - NANOSCIENCE & NANOTECHNOLOGY

Journal in the top 25%: No

No. of journals in the cat.: 52

Category: Science Edition - PHYSICS, APPLIED

Journal in the top 25%: No

No. of journals in the cat.: 95

Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY

Journal in the top 25%: No

No. of journals in the cat.: 127

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

No. of journals in the cat.: 192

Citations: 4

- 70** J.D. Santos; J. Olivera; P. Álvarez; T. Sánchez; M.J. Pérez; M.L. Sánchez; P. Gorría; B. Hernando. Torsion-induced magnetoimpedance in nanocrystalline Fe-based wires. Journal of Magnetism and Magnetic Materials. 316, pp. 915 - 918. (Holland): Elsevier, 02/09/2007. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0304885307004933>>.

DOI: 10.1016/j.jmmm.2007.03.138

Type of production: Scientific paper

Position of signature: 3

Format: Journal

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

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: No

No. of journals in the cat.: 232

Citations: 1

Impact source: WOS (JCR)

Impact index in year of publication: 1.780

Position of publication: 75

Source of citations: SCOPUS

Relevant publication: No

- 71** Tatiana Sánchez; Pablo Alvarez; Jesús Olivera; Maria J. Pérez; F. J. Belzunce; Jesús D. Santos; Jose L. Sánchez Llamazares; Maria L. Sánchez; Pedro Gorria; Blanca Hernando. Torsion annealing influence on the impedance behaviour in amorphous FeSiB and CoSiB wires. Journal of Non-Crystalline Solids. 353, pp. 914 - 918. (Holland): Elsevier, 15/04/2007. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0022309307000476>>.

DOI: 10.1016/j.jnoncrysol.2006.12.098

Type of production: Scientific paper

Position of signature: 2

Format: Journal

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

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

No. of journals in the cat.: 232

Citations: 5

Impact source: WOS (JCR)

Impact index in year of publication: 1.537

Position of publication: 93

Source of citations: WOS

Relevant publication: No

- 72** Maria L. Sánchez; Jesús Olivera; Jesús D. Santos; Pablo Álvarez; Maria J. Pérez; Pedro Gorria; Blanca Hernando. Fe-rich wires as elements for torsion sensors based in torsion impedance effect. Sensor Letters. 5, pp. 89 - 92. (United States of America): American Scientific Publishers, 03/2007. Available on-line at: <<http://www.ingentaconnect.com/content/asp/senlet/2007/00000005/00000001/art00025>>.

DOI: 10.1166/sl.2007.070

Type of production: Scientific paper

Position of signature: 4

Impact source: WOS (JCR)

Impact index in year of publication: 0.819

Position of publication: 88

Source of citations: WOS

Relevant publication: No

Format: Journal

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

Category: Science Edition - PHYSICS, APPLIED

Journal in the top 25%: No

No. of journals in the cat.: 125

Citations: 2

- 73** Blanca Hernando; Jesús Olivera; Pablo Álvarez; Jesús D. Santos; Maria L. Sánchez; Maria J. Pérez; Tatiana Sánchez Sánchez; Pedro Gorria. The effect of different annealing treatments on magneto-impedance in Finemet wires. Physica B-Condensed Matter. 384, pp. 165 - 168. (Holland): Elsevier, 01/10/2006. Available on-line at: <<http://www.sciencedirect.com/science/article/pii/S0921452606011112>>.

DOI: 10.1016/j.physb.2006.05.216

Type of production: Scientific paper

Position of signature: 3

Impact source: SCOPUS (SJR)

Impact index in year of publication: 0.542

Position of publication: 100

Source of citations: WOS

Relevant publication: No

Format: Journal

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

Category: Materials Science (miscellaneous)

Journal in the top 25%: No

No. of journals in the cat.: 289

Citations: 4

- 74** Hernando, B.; Alvarez, P.; Santos, J. D.; Gorria, P.; Sanchez, M. L.; Olivera, J.; Perez, M. J.; Prida, V. M.. Magnetoimpedance effect in Nanoperm alloys. JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS. 300 - 1, pp. E59 - E62. ELSEVIER SCIENCE BV, 01/05/2006. ISSN 0304-8853

Type of production: Scientific paper

Impact source: WOS (JCR)

Impact index in year of publication: 1.212

Position of publication: 33

Impact source: WOS (JCR)

Impact index in year of publication: 1.212

Position of publication: 71

Source of citations: WOS

Format: Journal

Category: Science Edition - PHYSICS, CONDENSED MATTER

Journal in the top 25%: No

No. of journals in the cat.: 58

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: No

No. of journals in the cat.: 176

Citations: 4

- 75** Salazar-Jaramillo, Daniel; Alvarez-Alonso, P.; Lazpita, P.; Sanchez Llamazares, J. L.; Gorria, P.; Blanco, J. A.; Chernenko, V. A.. Magnetocaloric Effect in Specially Designed Materials. MAGNETIC NANOSTRUCTURED MATERIALS: FROM LAB. TO FAB. pp. 199 - 244. ELSEVIER SCIENCE BV, 01/01/2018. ISBN 978-0-12-813904-2, ISBN 978-0-12-813905-9

Type of production: Book chapter

Source of citations: WOS

Format: Book

Citations: 11

Works submitted to national or international conferences

- 1** **Title of the work:** Assessing Rapid Solidification Processing to Produce Magnetocaloric Alloys for H2 Liquefaction
Name of the conference: TMS 2024 Annual Meeting & Exhibition
Type of event: Conference
Type of participation: Participatory - invited / keynote talk
Geographical area: Non EU International
Reasons for participation: Upon invitation
Corresponding author: Yes
City of event: Orlando, United States of America
Date of event: 04/03/2024
End date: 07/03/2024
Organising entity: TMS
Publication in conference proceedings: No
Pablo Álvarez Alonso; César Fidel Sánchez Valdés; José Luis Sánchez Llamazares.
- 2** **Title of the work:** Potential of Magnetic Shape Memory Ribbons in Magnetic Refrigeration
Name of the conference: Joint European Magnetic Symposia (JEMS2023)
Type of event: Conference
Type of participation: Participatory - invited / keynote talk
Geographical area: Non EU International
Reasons for participation: Upon invitation
Corresponding author: Yes
City of event: Madrid, Spain
Date of event: 27/08/2023
End date: 01/09/2023
Publication in conference proceedings: No
Pablo Álvarez Alonso; Ricardo López Antón; Juan Pablo Camarillo; Daniel Salazar; Volodymyr Chernenko.
- 3** **Title of the work:** Magnetic Characterization as a Tool for Deciphering the Influence of the Carbon Matrix and Crystalline Structures in Ni@C Nanoparticles
Name of the conference: Global Congress on Magnetism and Magnetic Materials(GCMMM2023)
Type of event: Conference
Type of participation: Participatory - invited / keynote talk
Geographical area: Non EU International
Reasons for participation: Upon invitation
Corresponding author: Yes
City of event: London, United Kingdom
Date of event: 11/08/2023
End date: 12/08/2023
Organising entity: Avouch conferences
Publication in conference proceedings: No
Pablo Álvarez Alonso.
- 4** **Title of the work:** Magnetocaloric effect in nanostructured R2Fe17 melt-spun ribbons
Name of the conference: International Conference on Fine Particle Magnetism
Type of event: Conference
Type of participation: Participatory - poster
Geographical area: Non EU International
Reasons for participation: Review before acceptance
Corresponding author: Yes
City of event: Gijón, Principality of Asturias, Spain
Date of event: 27/05/2019

**End date:** 31/05/2019**Organising entity:** Universidad de Oviedo**Type of entity:** University**City organizing entity:** Oviedo, Spain

Lucía Martínez Goyeneche; César Fidel Sánchez Valdés; Pablo J. Ibarra Gaytán; Pablo Álvarez Alonso; Pedro Gorria Korres; José Luis Sánchez Llamazares.

5 Title of the work: Metamagnetic shape memory alloys: Caloric effects in bulk and ribbon states**Name of the conference:** Thermag VIII – International Conference on Caloric Cooling**Type of event:** Conference**Type of participation:** Participatory - oral communication**Reasons for participation:** Review before acceptance**Corresponding author:** No**City of event:** Darmstadt, Germany**Date of event:** 16/09/2018**End date:** 20/09/2018

Volodymyr A. Chernenko; Pablo Álvarez Alonso; Daniel Salazar Jaramillo.

6 Title of the work: Caloric effects in Heusler metamagnetic shape memory alloys**Name of the conference:** Danish days on caloric materials and devices**Type of event:** Conference**Type of participation:** Participatory - poster**Reasons for participation:** Review before acceptance**Corresponding author:** No**City of event:** Risø, Denmark**Date of event:** 02/10/2017**End date:** 03/10/2017

Volodymyr A. Chernenko; Pablo Álvarez Alonso; Daniel Salazar Jaramillo; V. A. L'vov.

7 Title of the work: Magnetocaloric effect in RNi₂ (R= Tb,Dy) melt-spun ribbons from specific heat measurements**Name of the conference:** 23rd Soft Magnetic Materials Conference**Type of event:** Conference**Type of participation:** Participatory - poster**Reasons for participation:** Review before acceptance**Corresponding author:** No**City of event:** Sevilla, Spain**Date of event:** 10/09/2017**End date:** 13/09/2017

Jose Luis Sánchez Llamazares; César Fidel Sánchez Valdés; Pablo J. Ibarra Gaytán; Pablo Álvarez Alonso; Jesús Blanco Rodríguez; Pedro Gorria Korres.

8 Title of the work: Revisiting the magnetic and magnetocaloric properties of FeZrB Invar alloys under high-magnetic field**Name of the conference:** 23rd Soft Magnetic Materials Conference**Type of event:** Conference**Type of participation:** Participatory - oral communication**Reasons for participation:** Review before acceptance**Corresponding author:** Yes**City of event:** Sevilla, Spain**Date of event:** 10/09/2017**End date:** 13/09/2017

Pablo Álvarez Alonso; José Luis Sánchez Llamazares; Pedro Gorria Korres; Jesús Blanco Rodríguez.

- 9** **Title of the work:** On the correct estimation of the magnetic entropy change curve across magneto-structural transitions from Maxwell relation
Name of the conference: XXVI International Materials Research Congress
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - poster **Reasons for participation:** Review before acceptance
Corresponding author: No
City of event: Cancún, Mexico
Date of event: 20/08/2017
End date: 25/08/2017
Organising entity: Sociedad Mexicana de Materiales **Type of entity:** Associations and Groups
City organizing entity: Mexico
Publication in conference proceedings: No
Aris Quintana Nedelcos; José Luis Sánchez Llamazares; César Fidel Sánchez Valdés; Pablo Álvarez Alonso; Pedro Gorria Korres; Precious Shamba; A. Morley.
- 10** **Title of the work:** Study of magnetocaloric effect in HoNi₂ ribbons from specific heat and magnetization measurements
Name of the conference: XXVI International Materials Research Congress
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - poster **Reasons for participation:** Review before acceptance
Corresponding author: Yes
City of event: Cancún, Mexico
Date of event: 20/08/2017
End date: 25/08/2017
Organising entity: Sociedad Mexicana de Materiales **Type of entity:** Associations and Groups
City organizing entity: Mexico
Publication in conference proceedings: No
César Fidel Sánchez Valdés; Pablo Jesús Ibarra Gaytán; José Luis Sánchez Llamazares; Pablo Álvarez Alonso.
- 11** **Title of the work:** Synthesis and magneto-structural characterization of TbAl₂ alloy ribbons
Name of the conference: XXVI International Materials Research Congress
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - poster **Reasons for participation:** Review before acceptance
Corresponding author: No
City of event: Cancún, Mexico
Date of event: 20/08/2017
End date: 25/08/2017
Organising entity: Sociedad Mexicana de Materiales **Type of entity:** Associations and Groups
City organizing entity: Mexico
Publication in conference proceedings: No
Pablo Jesús Ibarra Gaytán; José Luis Sánchez Llamazares; César Fidel Sánchez Valdés; Pablo Álvarez Alonso.
- 12** **Title of the work:** Magnetocaloric effect and magnetic field-induced martensitic transformation in NiMnIn-based metamagnetic shape memory alloys
Name of the conference: Energy Materials Nanotechnology Spain Meeting
Type of event: Conference **Geographical area:** Non EU International



Type of participation: Participatory - invited / keynote talk

Reasons for participation: Upon invitation

Corresponding author: Yes

City of event: San Sebastian, Basque Country, Spain

Date of event: 02/09/2015

Organising entity: OAHOST

Publication in conference proceedings: No

Javier López García; Daniel Salazar Jaramillo; Pablo Álvarez Alonso; Juan Pablo Camarillo; Horacio Flores Zuñiga; David Ríos Jara; Volodymyr A. Chernenko.

- 13 Title of the work:** Synthesis and structural, magnetic and magnetocaloric characterization of Nd₂Fe₁₇ melt-spun ribbons

Name of the conference: International Materials Research Congress

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - poster

Reasons for participation: Review before acceptance

Corresponding author: No

City of event: Cancún, Mexico

Date of event: 16/08/2015

End date: 18/08/2015

Organising entity: Sociedad Mexicana de Materiales **Type of entity:** Associations and Groups

City organizing entity: Mexico

Publication in conference proceedings: No

José Luis Sánchez Llamazares; César Fidel Sánchez Valdés; Pablo Jesús Ibarra Gaytán; Pablo Álvarez Alonso; Pedro Gorria Korres.

- 14 Title of the work:** Fabrication of patterned ferromagnetic shape memory thin films

Name of the conference: International Materials Research Congress

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - invited / keynote talk

Reasons for participation: Upon invitation

Corresponding author: Yes

City of event: Cancún, Mexico

Date of event: 17/08/2014

End date: 21/08/2014

Organising entity: Sociedad Mexicana de Materiales **Type of entity:** Associations and Groups

City organizing entity: Mexico

Publication in conference proceedings: No

Pablo Álvarez Alonso; Anabel Pérez Checa; Iván Rodríguez Aseguinolaza; Javier Alonso Masa; Volodymyr A. Chernenko; Jose Manuel Barandiarán.

- 15 Title of the work:** Magnetocaloric behavior of Y₂Fe₁₇ melt-spun ribbons

Name of the conference: International Materials Research Congress

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - poster

Reasons for participation: Review before acceptance

Corresponding author: No

City of event: Cancún, Mexico

Date of event: 17/08/2014

End date: 21/08/2014

Organising entity: Sociedad Mexicana de Materiales **Type of entity:** Associations and Groups

City organizing entity: Mexico

**Publication in conference proceedings:** No

César Fidel Sánchez Valdés; Pablo Jesús Ibarra Gaytán; José Luis Sánchez Llamazares; Pablo Álvarez Alonso; Pedro Gorria Korres; Jesús Ángel Blanco Rodríguez.

16 Title of the work: Magnetocaloric characterization of DyNi₂ melt-spun ribbons

Name of the conference: International Materials Research Congress

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - poster

Reasons for participation: Review before acceptance

Corresponding author: No

City of event: Cancún, Mexico

Date of event: 17/08/2014

End date: 21/08/2014

Organising entity: Sociedad Mexicana de Materiales **Type of entity:** Associations and Groups

City organizing entity: Mexico

Publication in conference proceedings: No

Pablo Jesús Ibarra Gaytán; José Luis Sánchez Llamazares; César Fidel Sánchez Valdés; Pablo Álvarez Alonso; Pedro Gorria Korres; Jesús Ángel Blanco Rodríguez.

17 Title of the work: Phase composition and magnetocaloric behavior of NdPrFe₁₇ melt-spun ribbons

Name of the conference: International Materials Research Congress

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - poster

Reasons for participation: Review before acceptance

Corresponding author: No

City of event: Cancún, Mexico

Date of event: 17/08/2014

End date: 21/08/2014

Organising entity: Sociedad Mexicana de Materiales **Type of entity:** Associations and Groups

City organizing entity: Mexico

Publication in conference proceedings: No

César Fidel Sánchez Valdés; Pablo Jesús Ibarra Gaytán; José Luis Sánchez Llamazares; Pablo Álvarez Alonso; Pedro Gorria Korres; Jesús Ángel Blanco Rodríguez.

18 Title of the work: A direct measurement system for the adiabatic temperature change

Name of the conference: 4th International Conference on Materials and Applications for Sensors and Transducers

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - poster

Reasons for participation: Review before acceptance

Corresponding author: No

City of event: Bilbao, Basque Country, Spain

Date of event: 08/06/2014

End date: 11/06/2014

Organising entity: Basque Center for Materials Applications & Nanostructures

Type of entity: R&D Centre

City organizing entity: Zamudio, Basque Country, Spain

Publication in conference proceedings: Yes

With external admission assessment committee: Yes

Type of contribution: Scientific paper

Javier López García; Gerardo Daniel Pérez; Pablo Álvarez Alonso; Daniel Salazar Jaramillo; Patricia Lázpita; Juan Pablo Camarillo; David Rios Jara; Horacio Flores Zuñiga; Jose Luis Sánchez Llamazares;



Volodymyr A. Chernenko. "Simple set-up for adiabatic measurements of magnetocaloric effect". En: Key Engineering Materials.

19 Title of the work: Fabrication of patterned ferromagnetic shape memory thin films

Name of the conference: 4th International Conference on Materials and Applications for Sensors and Transducers

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - poster

Reasons for participation: Review before acceptance

City of event: Bilbao, Basque Country, Spain

Date of event: 08/06/2014

End date: 11/06/2014

Organising entity: Basque Center for Materials Applications & Nanostructures

Type of entity: R&D Centre

City organizing entity: Zamudio, Basque Country, Spain

Publication in conference proceedings: No

With external admission assessment committee: Yes

Type of contribution: Scientific paper

Pablo Álvarez Alonso; Anabel Pérez Checa; Iván Rodríguez Aseguinolaza; Javier Alonso Masa; Volodymyr A. Chernenko; Jose Manuel Barandiarán. "Fabrication of patterned ferromagnetic shape memory thin films". En: Key Engineering Materials.

20 Title of the work: Advances in fabrication of Permalloy dots and anti-dots by patterning with self-assembled polystyrenespheres

Name of the conference: Donostia International Conference on Nanoscaled Magnetism and Applications (DICNMA)

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - poster

Reasons for participation: Review before acceptance

Corresponding author: No

City of event: Donostia, Basque Country, Spain

Date of event: 09/09/2013

End date: 13/09/2013

Publication in conference proceedings: No

With external admission assessment committee: Yes

M. Goiriena; P. Álvarez; M.L. Fdez-Gubieda; A. García-Arribas.

21 Title of the work: Enhancing the working temperature span and refrigerant capacity of two-phase composite systems based on amorphous FeZrBCu ribbons

Name of the conference: 18th International Symposium on metastable, amorphous and nanostructure materials

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

City of event: Gijón, Principality of Asturias, Spain

Date of event: 27/06/2011

End date: 27/06/2011

Publication in conference proceedings: No

With external admission assessment committee: Yes

P. Alvarez; J. L. Sanchez Llamazares; P. Gorria.



- 22** **Title of the work:** The role of Chromium on the magnetic response of $(\text{Fe}_{1-x}\text{Cr}_x)\text{Si}_6\text{B}_{14}$ metallic glasses
Name of the conference: 18th International Symposium on metastable, amorphous and nanostructure materials
Type of event: Conference
Type of participation: Participatory - poster
Geographical area: Non EU International
Reasons for participation: Review before acceptance
City of event: Gijón, Principality of Asturias, Spain
Date of event: 27/06/2011
End date: 28/06/2011
Publication in conference proceedings: No
With external admission assessment committee: Yes
 J. D. Santos; P. Alvarez; M. J. Perez; J. L. Sanchez Llamazares; P. Gorria.
- 23** **Title of the work:** Magnetocaloric effect in nanostructured $\text{Pr}_2\text{Fe}_{17}$ and $\text{Nd}_2\text{Fe}_{17}$ synthesized by high-energy ball-milling
Name of the conference: 14th Czech and Slovak Conference on Magnetism
Type of event: Conference
Type of participation: Participatory - oral communication
Geographical area: Non EU International
Reasons for participation: Review before acceptance
City of event: Košice (Eslovaquia), Slovakia
Date of event: 05/07/2010
End date: 05/07/2010
Publication in conference proceedings: Yes
With external admission assessment committee: Yes
Type of contribution: Scientific paper
 P. Alvarez; J. Sánchez Marcos; V. Franco; J.L. Sánchez Llamazares; M. Reiffers; I. Puente Orench; J.A. Blanco; P. Gorria. "Magnetocaloric Effect in Nanostructured $\text{Pr}_2\text{Fe}_{17}$ and $\text{Nd}_2\text{Fe}_{17}$ Synthesized by High-Energy Ball-Milling". En: Acta Physica Polonica A. 118 - 5, pp. 867 - 869. Polish Acad. Sciences Inst. Physics, 2010.
- 24** **Title of the work:** The evolution of the structure, nanostructure and magnetic properties in $\text{Nd}_2\text{Fe}_{17}$ upon long-time high-energy ball milling
Name of the conference: 16th International Symposium on Metastable, Amorphous and Nanostructured Materials
Type of event: Conference
Type of participation: Participatory - oral communication
Reasons for participation: Review before acceptance
City of event: Zurich (Suiza), Switzerland
Date of event: 04/07/2010
End date: 04/07/2010
Publication in conference proceedings: No
With external admission assessment committee: Yes
 P. Álvarez; V. Franco; J.L. Sánchez Llamazares; J.A. Blanco; P. Gorria.
- 25** **Title of the work:** Magnetic structure and magnetovolume anomalies in $\text{Er}_2\text{Fe}_{17}$ compound
Name of the conference: V Reunión de la Sociedad Española de Técnicas Neutrónicas
Type of event: Conference
Type of participation: Participatory - oral communication
Geographical area: National
Reasons for participation: Review before acceptance
Corresponding author: Yes
City of event: Gijón, Principality of Asturias, Spain
Date of event: 10/06/2010



End date: 10/06/2010

Organising entity: Spanish Neutron Scattering Assoc; Univ Oviedo, Dept Phys

City organizing entity: Gijón, Principality of Asturias, Spain

Publication in conference proceedings: Yes

With external admission assessment committee:
Yes

Type of contribution: Scientific paper

Pablo Álvarez; Pedro Gorria; José L. Sánchez Llamazares; Gabriel Cuello; Inés Puente Orench; Jose Alberto Rodriguez Velamazán; Jesús A. Blanco. "Magnetic structure and magneto-volume anomalies in Er₂Fe₁₇ compound". En: Journal of Physics: Conference Series. 325, pp. 012011. Institute of Physics Publishing, 01/01/2011. ISSN 1742-6588

26 Title of the work: Magneto-caloric effect in FeZrB amorphous alloys near room temperature

Name of the conference: 16th International Symposium on Metastable, Amorphous and Nanostructured Materials

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

City of event: Beijing, China

Date of event: 24/07/2009

End date: 24/07/2009

Publication in conference proceedings: Yes

With external admission assessment committee:
Yes

Type of contribution: Scientific paper

Pablo Álvarez; Jorge Sánchez Marcos; Pedro Gorria; Luis Fernández Barquín; Jesús A. Blanco. "Journal on Non-Crystalline Solids". En: Journal of Alloys and Compounds. 504, pp. S150 - S154. Elsevier,

27 Title of the work: Magneto-volume anomalies and magneto-caloric effect in Pr₂Fe₁₇ nanocrystalline compounds studied by neutron diffraction and magnetic measurements

Name of the conference: International Conference on Neutron Scattering

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - poster

Reasons for participation: Review before acceptance

City of event: Knoxville, Tennessee, United States of America

Date of event: 06/05/2009

End date: 06/05/2009

Publication in conference proceedings: Yes

With external admission assessment committee:
Yes

Type of contribution: Scientific paper

Pedro Gorria; Pablo Alvarez; Jorge Sanchez Marcos; Jose L. Sanchez Llamazares; Jesus A. Blanco. "Nanocrystalline Pr₂Fe₁₇ studied by neutron powder diffraction". En: Journal of Physics: Conference Series. Institute of Physics Publishing, 2009.

28 Title of the work: Estructura cristalina y anomalías magneto-volumicas en Pr₂Fe₁₇ nanoestructurado

Name of the conference: IV Reunión de la Sociedad Española de Técnicas Neutrónicas

Type of event: Conference

Geographical area: National

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

Corresponding author: Yes

City of event: Girona, Catalonia, Spain

Date of event: 08/09/2008

End date: 08/09/2008

Publication in conference proceedings: No



With external admission assessment committee:
Yes

P. Álvarez; J. L. Sánchez Llamazares; P. Gorriá; J. A. Blanco; J. Sánchez Marcos.

- 29 Title of the work:** Magneto-volume anomalies and Magnetocaloric effect on ball-milling nanostructured Pr₂Fe₁₇ compounds

Name of the conference: TNT2008 Trends in NanoTechnology

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - poster

Reasons for participation: Review before acceptance

Corresponding author: No

City of event: Oviedo, Principality of Asturias, Spain

Date of event: 03/09/2008

End date: 03/09/2008

Publication in conference proceedings: No

With external admission assessment committee:
Yes

Pablo Álvarez; José L. Sánchez Llamazares; María José Pérez; Jorge Sánchez Marcos; Jesús A. Blanco; Pedro Gorria.

- 30 Title of the work:** Off-diagonal Magnetoimpedance effect in Fe₈₀B₂₀ Amorphous Ribbons

Name of the conference: Ninth International Workshop on Non-Crystalline Solids

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

Corresponding author: No

City of event: Oporto, Portugal

Date of event: 29/03/2008

End date: 29/03/2008

Organising entity: Fund Cienc & Tecnol; Univ Porto, Fac Sci; Inst Nanotechnol; Univ Porto, Inst Phys Ma

Publication in conference proceedings: No

With external admission assessment committee:
Yes

M.L. Sánchez; T. Sánchez; I. Ribot; M.J. Pérez; J.D. Santos; J.L. Sánchez Llamazares; V.M. Prida; P. Alvarez; B. Hernando; Ll. Escoda; J.J. Suñol. "Off-diagonal Magnetoimpedance effect in Fe₈₀B₂₀ Amorphous Ribbons". En: JOURNAL OF NON-CRYSTALLINE SOLIDS. 01/12/2008. ISSN 1873-4812

- 31 Title of the work:** Magneto-caloric effect and magneto-volume anomalies in nanostructured Pr₂Fe₁₇

Name of the conference: Ninth International Workshop on Non-Crystalline Solids

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

City of event: Oporto, Portugal

Date of event: 28/03/2008

End date: 28/03/2008

Publication in conference proceedings: No

With external admission assessment committee:
Yes

Pedro Gorria; José L. Sánchez Llamazares; Pablo Álvarez; M^a José Pérez; Jorge Sánchez Marcos; Jesús A. Blanco.

- 32 Title of the work:** Microstructure and magnetic properties of Ni₅₀Mn₃₇Sn₁₃ Heusler alloy ribbons

Name of the conference: 52nd Magnetism and Magnetic Materials Conference

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - poster

City of event: Tampa, United States of America

Date of event: 06/11/2007

End date: 06/11/2007

Organising entity: IEEE, Magnet Soc

Publication in conference proceedings: Yes

Reasons for participation: Review before acceptance

With external admission assessment committee: Yes

Type of contribution: Scientific paper

J. D. Santos; T. Sanchez; P. Alvarez; M. L. Sanchez; J. L. Sánchez Llamazares; B. Hernando; L. Escoda; J. J. Suñol; R. Varga. "Microstructure and magnetic properties of Ni(50)Mn(37)Sn(13) Heusler alloy ribbons". En: Journal of Applied Physics. 103 - 7, pp. 07B326. Elsevier, 01/04/2008. ISSN 1089-7550

- 33 Title of the work:** The effect of ball milling in the microstructure and magnetic properties of Pr₂Fe₁₇ compound

Name of the conference: 14th International Symposium on Metastable, Amorphous and Nanostructured Materials

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Corfú, Greece

Date of event: 28/08/2007

End date: 28/08/2007

Publication in conference proceedings: Yes

Geographical area: Non EU International

Reasons for participation: Review before acceptance

With external admission assessment committee: Yes

Type of contribution: Scientific paper

J.L. Sánchez Llamazares; M.J. Pérez; P. Álvarez; J.D. Santos; M.L. Sánchez; B. Hernando; J.A. Blanco; P. Gorria. "The effect of ball milling in the microstructure and magnetic properties of Pr₂Fe₁₇ compound". En: Journal on Non-Crystalline Solids. 483, pp. 682 - 685. Elsevier, 2007.

- 34 Title of the work:** Torsion-induced magneto-impedance in nanocrystalline Fe-based wires

Name of the conference: 4th NanoSpain Workshop

Type of event: Conference

Type of participation: Participatory - poster

City of event: Sevilla, Spain

Date of event: 13/03/2007

End date: 13/03/2007

Publication in conference proceedings: Yes

Geographical area: Non EU International

Reasons for participation: Review before acceptance

With external admission assessment committee: Yes

Type of contribution: Scientific paper

P. Álvarez; T. Sánchez; J.D. Santos; J. Bonastre; M.L. Sánchez; P. Gorria; J.J. Suñol; B. Hernando. "Torsion-induced magnetoimpedance in nanocrystalline Fe-based wires". En: Journal of Magnetism and Magnetic Materials. 316, pp. E915 - E918. Elsevier, 2006.

- 35 Title of the work:** Fe-rich wires as elements for torsion sensors based in torsion impedance effect

Name of the conference: 6th European Conference on Magnetic Sensors and Actuators

Type of event: Conference

Type of participation: Participatory - poster

Corresponding author: No

City of event: Bilbao, Basque Country, Spain

Geographical area: Non EU International

Reasons for participation: Review before acceptance

**Date of event:** 05/07/2006**End date:** 05/07/2006**Organising entity:** Univ Basque Country, Dept Elect & Elect, Grp Magnetism; Spanish & Basque Govt**City organizing entity:** Bilbao, Basque Country, Spain**Publication in conference proceedings:** No**With external admission assessment committee:**
Yes**Type of contribution:** Scientific paper

M.L. Sánchez; J. Olivera; J.D. Santos; P. Alvarez; M.J. Pérez; P. Gorriá; B. Hernando. "Fe-rich wires as elements for torsion sensors based in torsion impedance effect". En: Sensor Letters. 5 - 1, pp. 89 - 92. 01/03/2007. ISSN 1546-1971

36 Title of the work: Torsion-induced magneto-impedance in nanocrystalline Fe-based wires**Name of the conference:** 3rd Joint European Magnetic Symposia**Type of event:** Conference**Geographical area:** Non EU International**Type of participation:** Participatory - poster**Reasons for participation:** Review before acceptance**City of event:** San Sebastián (España), Spain**Date of event:** 27/06/2006**End date:** 27/06/2006**Publication in conference proceedings:** Yes**With external admission assessment committee:**
Yes**Type of contribution:** Scientific paper

J.D. Santos; J. Olivera; P. Álvarez; T. Sánchez; M.J. Pérez; M.L. Sánchez; P. Gorriá; B. Hernando. "Torsion-induced magnetoimpedance in nanocrystalline Fe-based wires". En: Journal of Magnetism and Magnetic Materials. 316, pp. E915 - E918. Elsevier, 2007.

37 Title of the work: Torsion annealing influence on the impedance behaviour in amorphous FeSiB and CoSiB wires**Name of the conference:** 8th Internacional Workshop on Non-Crystalline Solids**Type of event:** Conference**Geographical area:** Non EU International**Type of participation:** Participatory - poster**Reasons for participation:** Review before acceptance**City of event:** Gijón, Principality of Asturias, Spain**Date of event:** 20/06/2006**End date:** 21/06/2006**Publication in conference proceedings:** Yes**With external admission assessment committee:**
Yes**Type of contribution:** Scientific paper

T. Sánchez; J. Olivera; P. Alvarez; M.J. Pérez; F.J. Belzunce; J.D. Santos; M.L. Sánchez; P. Gorriá; B. Hernando. "Torsion annealing influence on the impedance behaviour in amorphous FeSiB and CoSiB wires". En: Journal of Non-Crystalline Solids. 353, pp. 914 - 918. Elsevier, 15/04/2007. ISSN 1873-4812

38 Title of the work: Magnetic behaviour and structural evolution of Fe₇₀Cr₁₀B₂₀ metallic glass**Name of the conference:** 2nd NanoSpain Workshop**Type of event:** Conference**Geographical area:** Non EU International**Type of participation:** Participatory - poster**Reasons for participation:** Review before acceptance**City of event:** Barcelona, Catalonia, Spain**Date of event:** 14/03/2005**End date:** 16/03/2005**Publication in conference proceedings:** No**With external admission assessment committee:**
Yes

P. Álvarez; J.D. Santos; A. Fernández Martínez; M.J. Pérez; B. Hernando; P. Gorria.

- 39 Title of the work:** Domain wall dynamics in Fe-rich glass covered amorphous microwires
Name of the conference: 5th International Workshop on Magnetic Wires
City of event: Zumaia,
Organising entity: UPV EHU, Magnet Grp
Type of contribution: Scientific paper
Daniel Santos, Jesus; Ruiz, Alvaro; Cobos, Raul F.; Ribot, Ivan; Vega, Victor; Alvarez, Pablo; Luisa Sanchez, Maria; Sanchez LI, Jose Luis; de la Prida, Victor M.; Hernando, Blanca. "PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE". 206 - 4, pp. 618 - 621. 01/04/2009. ISSN 1862-6300, ISSN 1862-6319
- 40 Title of the work:** MAGNETOCALORIC EFFECT IN RNi_2 MELT-SPUN RIBBONS ($R = Dy, Tb$)
Name of the conference: 6th IIR/IIF International Conference on Magnetic Refrigeration (THERMAG)
City of event: Victoria,
Organising entity: Univ Victoria; ERASTEEL; BASF; Fairmont Empress; Integrated Energy Sys Vic; IIR; IIF
Type of contribution: Scientific paper
Sanchez Llamazares, J. L.; Ibarra-Gaytan, P. J.; Sanchez-Valdes, C. F.; Alvarez-Alonso, Pablo; Gorria, P.; Blanco, J. A. "6TH IIR/IIF INTERNATIONAL CONFERENCE ON MAGNETIC REFRIGERATION (THERMAG VI)". En: Refrigeration Science and Technology. pp. 137 - 138. 01/01/2014. ISSN 0151-1637, ISBN 978-2-362150-07-4
- 41 Title of the work:** Magnetic entropy change and refrigerant capacity of rapidly solidified $TbNi_2$ alloy ribbons
Name of the conference: 12th Joint MMM-Intermag Conference
City of event: Chicago,
Organising entity: AIP Publishing; IEEE Magnet Soc
Type of contribution: Scientific paper
Sanchez Llamazares, J. L.; Sanchez-Valdes, C. F.; Ibarra-Gaytan, P. J.; Alvarez-Alonso, Pablo; Gorria, P.; Blanco, J. A. "JOURNAL OF APPLIED PHYSICS". 113 - 17, 07/05/2013. ISSN 0021-8979, ISSN 1089-7550
- 42 Title of the work:** Magnetostructural transition and magnetocaloric effect in $MnNiGe_{1.05}$ melt-spun ribbons
Name of the conference: 58th Annual Conference on Magnetism and Magnetic Materials
City of event: Denver,
Type of contribution: Scientific paper
Daniel-Perez, Gerardo; Sanchez Llamazares, J. L.; Quintana-Nedelcos, A.; Alvarez-Alonso, P.; Varga, R.; Chernenko, V. "JOURNAL OF APPLIED PHYSICS". 115 - 17, 07/05/2014. ISSN 0021-8979, ISSN 1089-7550
- 43 Title of the work:** Microstructural and magnetic characterization of Nd_2Fe_{17} ball milled alloys
Name of the conference: 9th International Workshop on Non Crystalline Solids
City of event: Porto,
Organising entity: Fund Cienc & Tecnol; Univ Porto, Fac Sci; Inst Nanotechnol; Univ Porto, Inst Phys Mat
Type of contribution: Scientific paper
Alvarez, P.; Sanchez Llamazares, J. L.; Perez, M. J.; Hernando, B.; Santos, J. D.; Sanchez-Marcos, J.; Blanco, J. A.; Gorria, P. "JOURNAL OF NON-CRYSTALLINE SOLIDS". 354 - 47-51, pp. 5172 - 5174. 01/12/2008. ISSN 0022-3093



- 44** **Title of the work:** Nanocrystalline $\text{Pr}_{2-x}\text{Fe}_{17}$ studied by neutron powder diffraction
Name of the conference: International Conference on Neutron Scattering 2009
City of event: Knoxville,
Type of contribution: Scientific paper
Gorria, Pedro; Alvarez, Pablo; Sanchez Marcos, Jorge; Sanchez Llamazares, Jose L.; Blanco, Jesus A. "INTERNATIONAL CONFERENCE ON NEUTRON SCATTERING 2009". En: Journal of Physics Conference Series. 251, 01/01/2010. ISSN 1742-6588, ISBN *****
- 45** **Title of the work:** On the broadening of the magnetic entropy change due to Curie temperature distribution
Name of the conference: 58th Annual Conference on Magnetism and Magnetic Materials
City of event: Denver,
Type of contribution: Scientific paper
Alvarez-Alonso, Pablo; Sanchez Llamazares, Jose L.; Sanchez-Valdes, Cesar F.; Cuello, Gabriel J.; Franco, Victorino; Gorria, Pedro; Blanco, Jesus A. "JOURNAL OF APPLIED PHYSICS". 115 - 17, 07/05/2014. ISSN 0021-8979, ISSN 1089-7550
- 46** **Title of the work:** Optimizing the Curie temperature of pseudo-binary $\text{R}_{2-x}\text{R}'_x\text{Fe}_{17}$ ($\text{R}, \text{R}' = \text{rare earth}$) for magnetic refrigeration
Name of the conference: 6th Meeting of the Spanish-Neutron-Scattering-Association (SETN)
City of event: Segovia,
Organising entity: SETN; ESS Bilbao; ICMN CSIC; ILL; Carburos Metalicos
Type of contribution: Scientific paper
Alvarez-Alonso, Pablo; Gorria, Pedro; Cuello, Gabriel; Puente Orench, Ines; Sanchez Llamazares, Jose L.; Franco, Victorino; Reiffers, Marian; Blanco, Jesus A. "6TH MEETING OF THE SPANISH NEUTRON SCATTERING ASSOCIATION (SETN2012)". En: Journal of Physics Conference Series. 549, 01/01/2014. ISSN 1742-6588, ISSN 1742-6596, ISBN *****
- 47** **Title of the work:** Shape memory behavior of Ni-Fe-Ga and Ni-Mn-Sn ribbons
Name of the conference: 10th European Symposium on Martensitic Transformations (ESOMAT)
City of event: Antwerp,
Type of contribution: Scientific paper
Villa, E.; Agilar-Ortiz, C.; Ivarez-Alonso, P. A.; Camarillo, J. P.; Lara-Rodriguez, G. A.; Flores-Zuniga, H.; Chernenko, V. A. "ESOMAT 2015 - 10TH EUROPEAN SYMPOSIUM ON MARTENSITIC TRANSFORMATIONS". En: MATEC Web of Conferences. 33, 01/01/2015. ISSN 2261-236X, ISBN 978-2-7598-1925-6
- 48** **Title of the work:** The effect of different annealing treatments on magneto-impedance in Finemet wires
Name of the conference: 7th Latin American Workshop on Magnetism, Magnetic Materials and Their Applications
City of event: Renaca,
Organising entity: Abdus Salam Int Ctr Theoret Phys; Centro Latinamericano Fis; Int Union Crystallog; Int Union Pure & Appl Phys; Millennium Sci Nucleus; Off Naval Res Global
Type of contribution: Scientific paper
Hernando, B.; Olivera, J.; Alvarez, P.; Santos, J. D.; Sanchez, M. L.; Perez, M. J.; Sanchez, T.; Gorria, P. "PHYSICA B-CONDENSED MATTER". 384 - 1-2, pp. 165 - 168. 01/10/2006. ISSN 0921-4526, ISSN 1873-2135

**Works submitted to national or international seminars, workshops and/or courses****Title of the work:** Asistencia a Jornadas de Magnetismo Industrial**Name of the event:** Jornadas de Magnetismo Industrial**Type of event:** Workshop**City of event:** Barcelona, Catalonia, Spain**Date of event:** 26/10/2006**End date:** 26/10/2006**Publication in conference proceedings:** No**With external admission assessment committee:**
No**Science Outreach activities**

- 1** **Title of the work:** The Refrigeration of the Future
Name of the event: Seminar – PhD Course, IPICYT
Type of event: Conferences given **Geographical area:** Regional
Reasons for participation: Upon invitation
Corresponding author: Yes
City of event: San Luis Potosí, Mexico
Date of event: 16/01/2019
Organising entity: Instituto Potosino de Investigación Científica y Tecnológica **Type of entity:** Technological Centre
Publication in conference proceedings: No **With external admission assessment committee:**
No
Pablo Álvarez Alonso.
- 2** **Title of the work:** The Refrigeration of the Future
Type of event: Conferences given **Geographical area:** Regional
Reasons for participation: Upon invitation
Corresponding author: Yes
City of event: Ciudad Real, Castile-La Mancha, Spain
Date of event: 05/10/2018
Organising entity: Instituto Regional de Investigaciones Científicas Avanzadas **Type of entity:** University Research Institute
City organizing entity: Ciudad Real, Castile-La Mancha, Spain
Publication in conference proceedings: No **With external admission assessment committee:**
No
Pablo Álvarez Alonso.
- 3** **Title of the work:** New Opportunities for the Development of Magnetic Refrigerants: Magnetic Composites
Name of the event: Seminar – PhD Course, IPICYT
Type of event: Conferences given **Geographical area:** Regional
Reasons for participation: Upon invitation
Corresponding author: Yes
City of event: San Luis Potosí, Mexico
Date of event: 20/03/2013
Organising entity: Instituto Potosino de Investigación Científica y Tecnológica **Type of entity:** Technological Centre
Publication in conference proceedings: No



With external admission assessment committee:
No

4 Title of the work: Magnetocaloric Effect in Materials with Second-Order Magnetic Transitions

Name of the event: Seminar – PhD Course, IPICT

Type of event: Conferences given

Geographical area: Regional

Reasons for participation: Upon invitation

Corresponding author: Yes

City of event: San Luis Potosí, Mexico

Date of event: 09/03/2011

Organising entity: Instituto Potosino de Investigación Científica y Tecnológica

Type of entity: Technological Centre

Publication in conference proceedings: No

With external admission assessment committee:
No

R&D management and participation in scientific committees

Scientific, technical and/or assessment committees

Committee title: IV International Baltic Conference on Magnetism 2021 Publishing committee

Start-End date: 01/09/2021 - 31/12/2021

Organization of R&D activities

1 Title of the activity: International Conference on Fine Particle Magnetism

Type of activity: International conference

Geographical area: Non EU International

City of event: Gijón, Principality of Asturias, Spain

Convening entity: Universidad de Oviedo

Type of entity: University

City convening entity: Gijón, Principality of Asturias, Spain

Type of participation: Organiser

Nº assistants: 190

Start-End date: 27/05/2019 - 31/05/2019

Duration: 5 days

2 Title of the activity: 18th International Symposium on metastable, amorphous and nanostructure materials

Type of activity: International conference

Geographical area: Non EU International

City of event: Gijón,

Convening entity: FUNDACION UNIVERSIDAD DE OVIEDO

City convening entity: Gijón, Principality of Asturias, Spain

Type of participation: Organiser

Nº assistants: 600

Start-End date: 26/06/2011 - 01/07/2011

Duration: 5 days

Evaluation and revision of R&D projects and articles

- 1** **Performed tasks:** Referee
Entity where activity was carried out: Journal of Non-Crystalline Solids
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 1
Geographical area: Non EU International
Start date: 20/09/2025
- 2** **Performed tasks:** Referee
Entity where activity was carried out: Nature communications
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 2
Geographical area: Non EU International
Start date: 17/07/2025
- 3** **Performed tasks:** Referee
Entity where activity was carried out: Nanoscale
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 1
Geographical area: Non EU International
Start date: 26/06/2025
- 4** **Performed tasks:** Referee
Entity where activity was carried out: Sci. Technol. Adv. Mater.
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 2
Geographical area: Non EU International
Start date: 01/05/2025
- 5** **Performed tasks:** Referee
Entity where activity was carried out: Communications Materials
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 2
Geographical area: Non EU International
Start date: 28/04/2025
- 6** **Performed tasks:** Referee
Entity where activity was carried out: Vacuum
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 1
Geographical area: Non EU International
Start date: 08/04/2025
- 7** **Performed tasks:** Referee
Entity where activity was carried out: International Journal of Thermophysics
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 1
Geographical area: Non EU International
Start date: 15/01/2025

**8 Performed tasks:** Referee**Entity where activity was carried out:** Materials Horizons**Type of activity:** Review of articles in scientific or technological journals **Frequency of the activity:** 1**Geographical area:** Non EU International**Start date:** 29/12/2024**9 Name of the activity:** PICT -Proyectos de Investigación Científica y Tecnológica**Performed tasks:** Referee**Entity where activity was carried out:** Agencia Estatal de Investigación**City of entity:** Spain**Type of activity:** Referee of project proposal**Frequency of the activity:** 2**Access system:** Designated by the corresponding party without competition **Geographical area:** National**Start date:** 04/2024**10 Performed tasks:** Referee**Entity where activity was carried out:** Journal of Materials Chemistry C**Type of activity:** Review of articles in scientific or technological journals **Frequency of the activity:** 5**Geographical area:** Non EU International**Start date:** 22/01/2024**11 Performed tasks:** Referee**Entity where activity was carried out:** Chemistry of Materials**Type of activity:** Review of articles in scientific or technological journals **Frequency of the activity:** 1**Geographical area:** Non EU International**Start date:** 23/12/2023**12 Performed tasks:** Referee**Entity where activity was carried out:** The Journal of Physical Chemistry**Type of activity:** Review of articles in scientific or technological journals **Frequency of the activity:** 3**Geographical area:** Non EU International**Start date:** 09/11/2023**13 Performed tasks:** Referee**Entity where activity was carried out:** Journal of Materials Chemistry A**Type of activity:** Review of articles in scientific or technological journals **Frequency of the activity:** 4**Geographical area:** Non EU International**Start date:** 02/10/2023**14 Performed tasks:** Referee**Entity where activity was carried out:** Shape Memory and Elasticity**Type of activity:** Review of articles in scientific or technological journals **Frequency of the activity:** 1**Geographical area:** Non EU International**Start date:** 18/09/2023



- 15** **Performed tasks:** Referee
Entity where activity was carried out: Journal of the American Ceramic Society
Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 1
Geographical area: Non EU International
Start date: 16/09/2023
- 16** **Performed tasks:** Referee
Entity where activity was carried out: Rare metals
Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 1
Geographical area: Non EU International
Start date: 05/08/2023
- 17** **Performed tasks:** Referee
Entity where activity was carried out: Scientific Reports
Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 3
Geographical area: Non EU International
Start date: 19/05/2023
- 18** **Performed tasks:** Associate Editor
Entity where activity was carried out: Frontiers in Materials
Type of activity: Participation in editorial committees
Access system: Designated by the corresponding party without competition **Geographical area:** Non EU International
Start date: 01/03/2023
- 19** **Performed tasks:** Referee
Entity where activity was carried out: Journal of Taibah University for Science
Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 1
Geographical area: Non EU International
Start date: 25/02/2023
- 20** **Performed tasks:** Editorial board
Entity where activity was carried out: Physica Scripta
Type of activity: Participation in editorial committees
Access system: Designated by the corresponding party without competition **Geographical area:** Non EU International
Start date: 01/02/2023
- 21** **Performed tasks:** Referee
Entity where activity was carried out: Modern Physics Letters B
Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 1
Geographical area: Non EU International
Start date: 21/12/2022



- 22** **Performed tasks:** Referee
Entity where activity was carried out: Journal of Rare Earths
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 4
Geographical area: Non EU International
Start date: 11/12/2022
- 23** **Name of the activity:** PICT -Proyectos de Investigación Científica y Tecnológica
Performed tasks: Referee
Entity where activity was carried out: Czech Science Foundation
City of entity: Czech Republic
Type of activity: Referee of project proposal
Frequency of the activity: 1
Access system: Designated by the corresponding party without competition
Geographical area: National
Start date: 12/07/2022
- 24** **Performed tasks:** Referee
Entity where activity was carried out: Engineering Research Express
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 1
Geographical area: Non EU International
Start date: 23/06/2022
- 25** **Performed tasks:** Referee
Entity where activity was carried out: Materials Letters
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 3
Geographical area: Non EU International
Start date: 02/12/2021
- 26** **Performed tasks:** Referee
Entity where activity was carried out: Energy Technology
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 2
Geographical area: Non EU International
Start date: 26/10/2021
- 27** **Performed tasks:** Referee
Entity where activity was carried out: AIP Advances
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 2
Geographical area: Non EU International
Start date: 16/09/2021
- 28** **Performed tasks:** Referee
Entity where activity was carried out: Physica Scripta
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 30
Geographical area: Non EU International
Start date: 01/08/2021



- 29** **Name of the activity:** Review of articles in scientific or technological journals
Performed tasks: Referee
Entity where activity was carried out: Applied Sciences
Type of activity: Review of articles in scientific or technological journals
Access system: Designated by the corresponding party without competition
Start date: 30/07/2021
Frequency of the activity: 1
Geographical area: Non EU International
- 30** **Performed tasks:** Referee
Entity where activity was carried out: Acta Materialia
Type of activity: Review of articles in scientific or technological journals
Geographical area: Non EU International
Start date: 08/05/2021
Frequency of the activity: 3
- 31** **Name of the activity:** Proyectos I+D+i
Performed tasks: Referee
Entity where activity was carried out: Instituto Universitario Tecnológico de Asturias
City of entity: Gijón, Principality of Asturias, Spain
Type of activity: Referee of project proposal
Access system: Designated by the corresponding party without competition
Start date: 09/03/2021
Type of entity: University Research Institute
Frequency of the activity: 1
Geographical area: University
- 32** **Performed tasks:** Referee
Entity where activity was carried out: CrystEngComm
Type of activity: Review of articles in scientific or technological journals
Geographical area: Non EU International
Start date: 15/02/2021
Frequency of the activity: 2
- 33** **Performed tasks:** Special Issue Editor
Entity where activity was carried out: Materials
Type of activity: Participation in editorial committees
Access system: Designated by the corresponding party without competition
Start date: 01/02/2021
Geographical area: Non EU International
- 34** **Performed tasks:** Referee
Entity where activity was carried out: Physics Letters A
Type of activity: Review of articles in scientific or technological journals
Geographical area: Non EU International
Start date: 01/01/2021
Frequency of the activity: 1
- 35** **Performed tasks:** Referee
Entity where activity was carried out: Materials Research Express
Type of activity: Review of articles in scientific or technological journals
Geographical area: Non EU International
Frequency of the activity: 3



Start date: 24/12/2020

36 Performed tasks: Referee

Entity where activity was carried out: Journal of Material Science and Technology Research

Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 1

Geographical area: Non EU International

Start date: 16/11/2020

37 Performed tasks: Referee

Entity where activity was carried out: Applied Physics A

Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 20

Geographical area: Non EU International

Start date: 03/09/2020

38 Performed tasks: Referee

Entity where activity was carried out: Intermetallics

Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 10

Geographical area: Non EU International

Start date: 24/06/2020

39 Performed tasks: Referee

Entity where activity was carried out: Materials Advanced

Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 1

Geographical area: Non EU International

Start date: 19/03/2020

40 Performed tasks: Referee

Entity where activity was carried out: APL Materials

Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 4

Geographical area: Non EU International

Start date: 07/02/2020

41 Performed tasks: Referee

Entity where activity was carried out: New Journal of Physics

Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 1

Geographical area: Non EU International

Start date: 10/11/2019

42 Performed tasks: Referee

Entity where activity was carried out: RSC advances

Type of activity: Review of articles in scientific or technological journals **Frequency of the activity:** 5

Geographical area: Non EU International

Start date: 25/10/2019

**43 Performed tasks:** Referee**Entity where activity was carried out:** Journal of Molecular Structure**Type of activity:** Review of articles in scientific or technological journals**Frequency of the activity:** 4**Geographical area:** Non EU International**Start date:** 14/08/2019**44 Performed tasks:** Referee**Entity where activity was carried out:** Heliyon**Type of activity:** Review of articles in scientific or technological journals**Frequency of the activity:** 1**Geographical area:** Non EU International**Start date:** 24/07/2019**45 Performed tasks:** Referee**Entity where activity was carried out:** Journal of Physics: Condensed Matter**Type of activity:** Review of articles in scientific or technological journals**Frequency of the activity:** 1**Geographical area:** Non EU International**Start date:** 27/02/2019**46 Performed tasks:** Referee**Entity where activity was carried out:** Journal of Superconductivity and Novel magnetism**Type of activity:** Review of articles in scientific or technological journals**Frequency of the activity:** 3**Geographical area:** Non EU International**Start date:** 02/02/2019**47 Performed tasks:** Referee**Entity where activity was carried out:** Physical Chemistry Chemical Physics**Type of activity:** Review of articles in scientific or technological journals**Frequency of the activity:** 10**Geographical area:** Non EU International**Start date:** 20/12/2018**48 Performed tasks:** Referee**Entity where activity was carried out:** Metals**Type of activity:** Review of articles in scientific or technological journals**Frequency of the activity:** 4**Geographical area:** Non EU International**Start date:** 19/12/2018**49 Performed tasks:** Referee**Entity where activity was carried out:** Actuators**Type of activity:** Review of articles in scientific or technological journals**Frequency of the activity:** 2**Geographical area:** Non EU International**Start date:** 08/11/2018



- 50** **Name of the activity:** PICT -Proyectos de Investigación Científica y Tecnológica
Performed tasks: Referee
Entity where activity was carried out: OMS system of National Foundation for Science and Technology Development
Type of entity: State agency
City of entity: Vietnam
Type of activity: Referee of project proposal
Access system: Designated by the corresponding party without competition
Frequency of the activity: 1
Geographical area: National
Start date: 24/09/2018
- 51** **Performed tasks:** Referee
Entity where activity was carried out: Polymers
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 1
Geographical area: Non EU International
Start date: 12/09/2018
- 52** **Performed tasks:** Referee
Entity where activity was carried out: Materials
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 17
Geographical area: Non EU International
Start date: 02/05/2018
- 53** **Performed tasks:** Referee
Entity where activity was carried out: Nanomaterials
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 5
Geographical area: Non EU International
Start date: 02/03/2018
- 54** **Performed tasks:** Referee
Entity where activity was carried out: Journal of Physics and Chemistry of Solids
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 2
Geographical area: Non EU International
Start date: 11/11/2017
- 55** **Performed tasks:** Referee
Entity where activity was carried out: Materials Science and Engineering B
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 3
Geographical area: Non EU International
Start date: 08/11/2017
- 56** **Performed tasks:** Referee
Entity where activity was carried out: Crystals
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 2
Geographical area: Non EU International
Start date: 28/08/2017

**57 Performed tasks:** Referee**Entity where activity was carried out:** Physica B**Type of activity:** Review of articles in scientific or technological journals**Frequency of the activity:** 6**Geographical area:** Non EU International**Start date:** 11/08/2017**58 Performed tasks:** Referee**Entity where activity was carried out:** Applied Physics Letters**Type of activity:** Review of articles in scientific or technological journals**Frequency of the activity:** 21**Geographical area:** Non EU International**Start date:** 24/05/2017**59 Performed tasks:** Referee**Entity where activity was carried out:** Materials & Design**Type of activity:** Review of articles in scientific or technological journals**Frequency of the activity:** 1**Geographical area:** Non EU International**Start date:** 01/04/2016**60 Performed tasks:** Referee**Entity where activity was carried out:** International Conference on Magnetism-2015**Type of activity:** Review of articles in scientific or technological journals**Frequency of the activity:** 1**Geographical area:** Non EU International**Start date:** 2015**61 Name of the activity:** PICT -Proyectos de Investigación Científica y Tecnológica**Performed tasks:** Referee**Entity where activity was carried out:** Agencia Nacional de Promoción Científica y Tecnológica**Type of entity:** State agency**City of entity:** Argentina**Type of activity:** Referee of project proposal**Frequency of the activity:** 5**Access system:** Designated by the corresponding party without competition**Geographical area:** National**Start date:** 27/11/2014**62 Performed tasks:** Referee**Entity where activity was carried out:** Journal of Applied Physics**Type of activity:** Review of articles in scientific or technological journals**Frequency of the activity:** 11**Geographical area:** Non EU International**Start date:** 2014**63 Performed tasks:** Referee**Entity where activity was carried out:** Journal of Magnetism and Magnetic Materials**Type of activity:** Review of articles in scientific or technological journals**Frequency of the activity:** 16**Geographical area:** Non EU International**Start date:** 2014

**64 Performed tasks: Referee****Entity where activity was carried out:** International Journal of Materials Science and Applications**Type of activity:** Review of articles in scientific or technological journals **Frequency of the activity:** 2**Geographical area:** Non EU International**Start date:** 15/05/2013**65 Performed tasks: Referee****Entity where activity was carried out:** IEEE Transactions on Magnetics - Conferences**Type of activity:** Review of articles in scientific or technological journals **Frequency of the activity:** 9**Geographical area:** Non EU International**Start date:** 2012**66 Performed tasks: Referee****Entity where activity was carried out:** Journal of Alloys and Compounds**Type of activity:** Review of articles in scientific or technological journals **Frequency of the activity:** 39**Geographical area:** Non EU International**Start date:** 2011**67 Performed tasks: Referee****Entity where activity was carried out:** Journal of Physics: Conference Series**Type of activity:** Review of articles in scientific or technological journals **Frequency of the activity:** 1**Geographical area:** Non EU International**Start date:** 2010**Other achievements****Stays in public or private R&D centres****1 Entity:** Consejo Nacional de Ciencia y Tecnología **Type of entity:** Public Research Body**Faculty, institute or centre:** Instituto Potosino de Investigación Científica y Tecnológica**City of entity:** San Luis Potosí, Mexico**Start-End date:** 17/12/2018 - 18/01/2019**Duration:** 1 month - 2 days**Funding entity:** Instituto Potosino de Investigación Científica y Tecnológica (CONACYT) **Type of entity:** R&D Centre**Goals of the stay:** Guest**Provable tasks:** Teach a PhD course; A seminar; Preparation of several papers; Magnetization under pressure experiments**2 Entity:** Consejo Nacional de Ciencia y Tecnología **Type of entity:** Public Research Body**Faculty, institute or centre:** Instituto Potosino de Investigación Científica y Tecnológica**City of entity:** San Luis Potosí, Mexico**Start-End date:** 15/03/2013 - 16/04/2013**Duration:** 1 month - 2 days**Funding entity:** Instituto Potosino de Investigación Científica y Tecnológica (CONACYT) **Type of entity:** R&D Centre**Goals of the stay:** Guest



Provable tasks: Teach a PhD course; A seminar; Preparation of several papers (3 published)

- 3** **Entity:** Consejo Nacional de Ciencia y Tecnología **Type of entity:** Public Research Body
Faculty, institute or centre: Instituto Potosino de Investigaciones Científicas
City of entity: San Luis Potosí, Mexico
Start-End date: 10/03/2011 - 08/04/2011 **Duration:** 2 months
Funding entity: FUNDACION PARA EL FOMENTO EN ASTURIAS DE LA INVESTIGACION CIENTIFICA APLICADA Y LA TECNOLOGIA
Name of programme: Severo Ochoa
Goals of the stay: Doctorate
Provable tasks: Microstructure and magnetic characterization of amorphous ribbons; Preparation of scientific articles (2 published)
- 4** **Entity:** Slovak Academy of Sciences **Type of entity:** Public Research Body
Faculty, institute or centre: Institute of Experimental Physics
City of entity: Košice, Slovakia
Start-End date: 05/07/2010 - 04/09/2010 **Duration:** 2 months
Funding entity: FUNDACION PARA EL FOMENTO EN ASTURIAS DE LA INVESTIGACION CIENTIFICA APLICADA Y LA TECNOLOGIA
City funding entity: Principality of Asturias, Spain
Name of programme: Severo Ochoa
Goals of the stay: Doctorate
Provable tasks: Magnetic characterization of R₂Fe₁₇ alloys (R=Y,Ce,Sm,Dy,Ho,Lu); Preparation of several articles (2 published)
Acquired skills developed: Obtener la variación de la entropía magnética con la temperatura y con el campo magnético
- 5** **Entity:** Institut Laue-Langevin **Type of entity:** R&D Centre
City of entity: Grenoble, France
Start-End date: 24/08/2009 - 20/11/2009 **Duration:** 3 months
Funding entity: FUNDACION PARA EL FOMENTO EN ASTURIAS DE LA INVESTIGACION CIENTIFICA APLICADA Y LA TECNOLOGIA
City funding entity: Principality of Asturias, Spain
Name of programme: Severo Ochoa
Goals of the stay: Doctorate
Provable tasks: Analyze the diffraction patterns of R₂Fe₁₇ (R = Rare Earth) obtained in a previous stay; X-ray powder diffraction under pressure experiment (ID27, ESRF); Several papers were published (more than five articles)
Acquired skills developed: Análisis de la evolución de la estructura cristalina y de los parámetros de la celda cristalográfica con temperatura y con presión
- 6** **Entity:** Institut Laue-Langevin **Type of entity:** R&D Centre
City of entity: Grenoble, France
Start-End date: 15/03/2009 - 16/04/2009 **Duration:** 1 month
Funding entity: FUNDACION PARA EL FOMENTO EN ASTURIAS DE LA INVESTIGACION CIENTIFICA APLICADA Y LA TECNOLOGIA
City funding entity: Principality of Asturias, Spain
Name of programme: Severo Ochoa
Goals of the stay: Doctorate
Provable tasks: Neutron powder diffraction experiments (D1B, D4, and D2B instruments)
Acquired skills developed: Análisis de patrones de difracción de neutrones para obtención de la evolución de los parámetros de red con la temperatura



- 7** **Entity:** Universidad de Sevilla **Type of entity:** University
Faculty, institute or centre: Facultad de Física
City of entity: Sevilla, Andalusia, Spain
Start-End date: 05/10/2008 - 02/11/2008 **Duration:** 1 month
Funding entity: FUNDACION PARA EL FOMENTO EN ASTURIAS DE LA INVESTIGACION CIENTIFICA APLICADA Y LA TECNOLOGIA
City funding entity: Principality of Asturias, Spain
Name of programme: Severo Ochoa
Goals of the stay: Doctorate
Provable tasks: To study the magnetic entropy change of several R₂Fe₁₇ and RR'Fe₁₇ compounds (R=Rare Earth); Prepare several articles (four papers were published)

Obtained grants and scholarships

- 1** **Name of the grant:** Programa Severo Ochoa de ayudas predoctorales
City awarding entity: Oviedo, Principality of Asturias, Spain
Identify key words: Classic thermodynamic, transference of the heat; Nanostructures; Structural determination and study of properties physical-chemistries; Magnetism
Aims: Pre-doctoral
Awarding entity: Fundación para el Fomento en Asturias de la Investigación Científica Aplicada y la Tecnología **Type of entity:** Public Research Body
Amount of the grant: 118.000 €
Conferral date: 01/06/2007 **Duration:** 4 years
End date: 31/05/2011
Entity where activity was carried out: Universidad de Oviedo
Faculty, institute or centre: Facultad de Ciencias
- 2** **Name of the grant:** Beca de colaboración
City awarding entity: Oviedo, Principality of Asturias, Spain
Aims: Fellowship: Introduction to research
Awarding entity: Universidad de Oviedo **Type of entity:** University
Amount of the grant: 3.000 €
Conferral date: 01/11/2004 **Duration:** 8 months
End date: 30/06/2005
Entity where activity was carried out: Universidad de Oviedo

Summary of other achievements

- 1** **Description of the achievement:** One Research Stage
Accrediting entity: ANECA
City accrediting entity: Spain
Conferral date: 11/05/2025
- 2** **Description of the achievement:** Translation of the Book "Introducing Particle Physics: A Graphic Guide"
Accrediting entity: Editorial Tecnos **Type of entity:** Business
City accrediting entity: Spain
Conferral date: 21/03/2021

- 3** **Description of the achievement:** Translation of the Book "Introducing Relativity: A Graphic Guide"
Accrediting entity: Editorial Tecnos **Type of entity:** Business
City accrediting entity: Spain
Conferral date: 21/03/2021
- 4** **Description of the achievement:** Two Research Stages
Accrediting entity: Axencia para a calidade do sistema universitario de Galicia (ACSUG)
City accrediting entity: Galicia, Spain
Conferral date: 03/03/2020
- 5** **Description of the achievement:** Two Regional Research Achievements
City accrediting entity: Spain
Conferral date: 01/01/2019
- 6** **Description of the achievement:** X-ray absorption experiment in magnetic nanoparticles and fluorescence in magnetic thin films
Accrediting entity: ESRF and ALBA synchrotrons
Conferral date: 28/01/2014
- 7** **Description of the achievement:** Member of the Evaluation Committee for the Physics Olympiad (Asturias Section)
Accrediting entity: REAL SOCIEDAD ESPAÑOLA DE FISICA
City accrediting entity: Oviedo, Principality of Asturias, Spain
Conferral date: 22/03/2012
- 8** **Description of the achievement:** Book chapter: ERNEST RUTHERFORD (1911-2011). TRABAJOS DEDICADOS A ERNEST RUTHERFORD POR CIENTIFICOS ESPAÑOLES Y EUROPEOS EN EL PRIMER CENTENARIO DE SU TEORIA ATOMICA. Editado por el Ilustre Colegio Oficial de Médicos de Asturias. I.S.B.N. :978-84-89120-45-7
Accrediting entity: Ilustre Colegio Oficial de Médicos **Type of entity:** Associations and Groups Asturias
City accrediting entity: Oviedo, Principality of Asturias, Spain
Conferral date: 01/03/2011
- 9** **Description of the achievement:** 9 Experiments Granted at Nuclear Reactor and Synchrotron as Principal Investigator
Accrediting entity: Institute Laue-Langevin, European Synchrotron Radiation Facility
City accrediting entity: Grenoble, Rhône-Alpes, France

Other merits of research activity