



Francisco Rey García

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Summary of CV

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

I received the M.S. degree in Chemistry from Universidade de Santiago de Compostela (USC), in August 2005; a Master Degree in: Expert in Agroalimentary Industries Management from Universidade da Coruña (UDC) in July 2006 and a Diploma Degree in Materials Science from USC in July 2009. The Ph.D. degree in Photonics and Laser Technologies was achieved in February 2012 within the UA Microoptics & GRIN optics group (UA) of the USC. with a thesis focused on the fabrication of planar waveguides on commercial glass substrates by Sol-Gel and Laser Irradiation methods.

My first Post-Doctoral stay, at Instituto de Ciencia de Materiales de Aragón (ICMA-CSIC) and mainly oriented to industrial partners, focuses the laser processing of new and modified ceramics, glasses, superconductors, waveguides for photonics and microelectronics systems, among others. I also worked under high vacuum conditions performing PLD into special designed chambers. Thus, until July 2015 I worked with different laser equipment: up to 20W nanosecond pulsed (ns) lasers operating at different wavelengths (266, 355, 532 and 1064 nm) and up to 2kW CO₂ laser generators. My experience on the Laser Furnace (LF) technology (semi-industrial and laboratory roller furnaces combined with CO₂ lasers) that substantially reduces processing temperature of ceramics and glasses must be highlighted.

From November 2015 to October 2018, I was granted with a FCT Post-Doctoral fellow at Universidade de Aveiro (UAv, Portugal), developing rare-earth silicate laser crystals by LFZ (Laser Floating Zone) with a 200W CO₂ laser. In addition, I collaborated in two R&D projects for the reparation of ceramic items through CO₂ laser irradiation, and, for the production of gold nanoparticles by the PLAL (Pulsed Laser Ablation in Liquids) technique using ns pulsed Nd:YAG (1064nm) and YVO₄ (355nm) pulsed lasers. In addition, a collaboration with researchers from Instituto de Ciencia de Materiales de Madrid (ICMM-CSIC) developing efficient laser was established being still maintained with they and people from i3N (UAv).

From December 2018 to March 2020, I returned to ICMA-CSIC with a postdoctoral contract focused on laser processing of advanced materials based on ZnO and CuO layers for solar cells (SPRINT project, H2020-FET-OPEN programme) within the UA group. Additionally, we successfully tested the degradation of water-dissolved pharmaceutical compounds through UV pulsed irradiation for Green Chemistry. From this study, a collaboration with researchers from CIIMAR (Matosinhos, Portugal), those perform ecotoxicity studies, is maintained.

Thus, I have employed a wide range of characterization techniques for microstructural analysis (TEM, FESEM/SEM and Confocal Microscopy), chemical analysis (IR/Raman and XRD), physical analysis (Electrical Conductivity) and optical studies (Spectroscopy, Ellipsometry or Photoluminescence, among others). In addition, I successfully applied my research skills for planning experiments and for finding funds being the results obtained published in indexed scientific journals and shown in national and international conferences. Finally, I must note collaborations with international groups from Germany (Institut für Anorganische Chemie) or Italy (Istituto di Fisica Applicata Nello Carrara), amongst others.



My future perspectives focus on Laser processing for Green Chemistry applications. Indeed, despite being unemployed, I perform experiments every so often at the UA group.



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.

Total cites (Scopus, Google Scholar & others): 142 (Thesis included, 8)

Cites/year (Scopus, Google Scholar & others):

2021: 24, 2020: 36, 2019: 16, 2018: 19, 2017: 15; 2016: 5; 2015: 7; 2014: 8; 2013: 9; 2012: 2; 2011: 1

h-index (Scopus, Google Scholar & others): 8

i-10 index (Scopus, Google Scholar & others): 5

Papers submitted to scientific peer-reviewed journals: 24 (11 Q1, 7 Q1/Q2, 4 Q2; 1 Q2/Q3; 1 Open Access) (1 Review)

Papers submitted to proceedings of SPIE conferences: 4 proceedings of SPIE

Chapter book: 1

Communications to scientific congress: 65 communications (4 invited lectures, 32 oral sessions, 4 oral poster sessions, 25 poster sessions).

Seminars: 1 (1h, 2016)

Member of Editorial Board at scientific peer-reviewed journals: Journal of Light & Laser: Current Trends (Herald, 2020; editor) Crystals (MDPI, 2021; guest & topic editor).

Evaluation and Reviewer at scientific peer-reviewed journals as Applied Optics (2 paper, 2017 & 2018), Optical Materials Express (1 paper, 2017), Heliyon (1 paper, 2018), Mediterranean Journal of Chemistry (1 paper, 2019), CrystEngComm (1 paper, 2020), Journal of Materials Science (4 paper, 2020 & 2021), Journal of Materials Science: Materials in Electronics (4 paper, 2020 & 2021), and, RSC Advances (1 paper, 2020).



Francisco Rey García

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Name: **Francisco**
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ScopusID: **48761773200**
Contact aut. region/reg.: **Galicia**

Previous positions and activities

	Employing entity	Professional category	Start date
1	Consejo Superior de Investigaciones Científicas	Postdoctoral researcher (Doctor FC2)	16/12/2018
2	Fundação para a Ciência e a Tecnologia	Postdoctoral researcher	01/11/2015
3	Instituto de Ciencia de Materiales de Aragón	Titulado Superior de Actividades Técnicas y Profesionales	16/02/2013
4	Universidad de Santiago de Compostela	PDI: Personal Docente e Investigador	02/07/2011
5	Ministerio de Ciencia e Innovación. Universidades	Becario FPI (Formación de Personal Investigador)	02/07/2007
6	Instituto de Ciencia de Materiales de Aragón	Becario	17/05/2007
7	Universidad de Santiago de Compostela	PDI: Personal Docente e Investigador	17/01/2007

- 1** **Employing entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Department: UA Microóptica & Óptica GRIN, Universidade de Santiago de Compostela, Instituto de Ciencia de Materiales de Aragón
Professional category: Postdoctoral researcher **Educational Management (Yes/No):** No (Doctor FC2)
Start-End date: 16/12/2018 - 15/03/2020 **Duration:** 1 year - 3 months
Type of contract: Temporary employment contract
Dedication regime: Full time
Primary (UNESCO code): 220910 - Lasers
Secondary (UNESCO code): 331200 - Materials technology
Field of management activity: Public Research Body
- 2** **Employing entity:** Fundação para a Ciência e a Tecnologia **Type of entity:** State agency
Department: i3N & Physics Department, Universidade de Aveiro
City employing entity: Aveiro, Portugal
Professional category: Postdoctoral researcher **Educational Management (Yes/No):** No
Start-End date: 01/11/2015 - 31/10/2018 **Duration:** 3 years
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Primary (UNESCO code): 220910 - Lasers
Secondary (UNESCO code): 221103 - Crystal Growth

- 3** **Employing entity:** Instituto de Ciencia de Materiales de Aragón **Type of entity:** University Research Institute
Professional category: Titulado Superior de Actividades Técnicas y Profesionales
Start-End date: 16/02/2013 - 30/06/2015 **Duration:** 865 days
Type of contract: Temporary employment contract
Dedication regime: Full time
Primary (UNESCO code): 220910 - Lasers
Secondary (UNESCO code): 330810 - Sewage technology
Tertiary (UNESCO code): 330707 - Laser devices
- 4** **Employing entity:** Universidad de Santiago de Compostela **Type of entity:** University
Department: Física Aplicada, Facultade de Óptica e Optometría
Professional category: PDI: Personal Docente e Investigador
Start-End date: 02/07/2011 - 31/12/2012 **Duration:** 549 days
Type of contract: Temporary employment contract
Dedication regime: Full time
Primary (UNESCO code): 220910 - Lasers
Secondary (UNESCO code): 330707 - Laser devices
Tertiary (UNESCO code): 331200 - Materials technology
- 5** **Employing entity:** Ministerio de Ciencia e Innovación. Universidades **Type of entity:** Universidad
Department: Física Aplicada, Universidad de Santiago de Compostela
Professional category: Becario FPI (Formación de Personal Investigador) **Educational Management (Yes/No):** No
Start-End date: 02/07/2007 - 01/07/2011 **Duration:** 1461 days
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Primary (UNESCO code): 220910 - Lasers
Secondary (UNESCO code): 220913 - Non-linear optics
Tertiary (UNESCO code): 330707 - Laser devices
- 6** **Employing entity:** Instituto de Ciencia de Materiales de Aragón **Type of entity:** University Research Institute
Professional category: Becario
Start-End date: 17/05/2007 - 30/06/2007 **Duration:** 45 days
Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Primary (UNESCO code): 220910 - Lasers
Secondary (UNESCO code): 331200 - Materials technology
- 7** **Employing entity:** Universidad de Santiago de Compostela **Type of entity:** University
Professional category: PDI: Personal Docente e Investigador
Start-End date: 17/01/2007 - 30/04/2007 **Duration:** 104 days
Type of contract: Temporary employment contract
Dedication regime: Full time
Primary (UNESCO code): 220910 - Lasers
Secondary (UNESCO code): 220913 - Non-linear optics



CURRÍCULUM VITAE NORMALIZADO

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| **Tertiary (UNESCO code):** 331200 - Materials technology



Education

University education

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

University degree: Higher degree

Name of qualification: Licenciado en Química Orientación Química del Medio Ambiente

Degree awarding entity: Universidad de Santiago de Compostela
Type of entity: University

Date of qualification: 02/08/2005

Doctorates

Doctorate programme: Programa Oficial de Doctorado en Fotónica y Tecnologías del Láser

Degree awarding entity: Universidad de Santiago de Compostela
Type of entity: University

Date of degree: 17/02/2012

Date DEA was awarded: 12/09/2008

European doctorate: Yes

Date of certificate: 17/02/2012

Thesis title: Planar waveguides obtained on commercial glass substrates by Sol-Gel and Laser Irradiation methods

Thesis director: Germán Francisco de la Fuente Leis

Thesis co-director: María Teresa Flores Arias

Obtained qualification: Apto Cum Laude

Other postgraduate university studies

Type of education: Postgraduate

Postgraduate qualification: Experto en gestión de empresas agroalimentarias

Degree awarding entity: Universidad de La Coruña
Type of entity: University

Faculty, institute or centre: Fundación Juana de Vega

Date of qualification: 15/12/2006

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

1 Training title: Curso de Seguridad de Láseres Ultraintensos
Awarding entity: ProCare Light
End date: 10/01/2019
Type of entity: Business

2 Training title: Título Profesional de Marinero-pescador
Awarding entity: Consellería de Pesca e Asuntos Marítimos
Type of entity: Organismos



Training manager: Manuel Fernández Carbajales
End date: 16/05/2017

3 Type of training: Course

Training title: Microscopía óptica Básica 2012

Awarding entity: Izasa, S.A.

Training manager: Emilio Boticario

End date: 28/06/2012

Type of entity: Business

Duration in hours: 6 hours

4 Type of training: Course

Training title: 3rd Thematic Intensive School on Conservation Science

Awarding entity: Universidad Jaime I

Training manager: Juan Bautista Carda Castelló

End date: 02/04/2012

Type of entity: University

5 Type of training: Course

Training title: Microscopía de Fluorescencia en célula viva

Awarding entity: FUNDACION EMPRESA-UNIVERSIDAD GALLEGA

Training manager: Luis de Miguel

End date: 28/02/2012

Duration in hours: 3 hours

6 Type of training: Course

Training title: Nuevas técnicas de fabricación y procesado de Cerámica. Eficiencia energética y medio ambiente

City awarding entity: Teruel, Aragon, Spain

Awarding entity: Universidad de Verano de Teruel

Training manager: Amador Marín Villalba

End date: 08/07/2011

Type of entity: University

Duration in hours: 30 hours

7 Type of training: Course

Training title: Curso básico de Ciencia y Tecnología Nuclear

Awarding entity: Sociedad Nuclear Española

Training manager: Andrés Muñoz

End date: 07/10/2010

Type of entity: Associations and Groups

Duration in hours: 4 hours

8 Type of training: Course

Training title: Summer School: "4th Intensive School on Conservation Science" - Instrumental Techniques for the Conservation of Cultural Heritage

City awarding entity: Teruel, Aragon, Spain

Awarding entity: Universidad de Verano de Teruel

Training manager: Amador Marín Villalba

End date: 30/07/2010

9 Type of training: Course

Training title: Escuela de Verano "Frontiers in Photonics and Laser Technologies"

Awarding entity: Universidad de Santiago de Compostela

Training manager: Humberto Michinel

End date: 18/07/2008

Type of entity: University



- 10** **Type of training:** Course
Training title: Aplicación de las microondas a la digestión de muestras y a la síntesis de materiales
Awarding entity: Instituto de Cerámica y Vidrio **Type of entity:** State agency
Training manager: Juan Carlos Fariñas Gutiérrez
End date: 17/04/2008 **Duration in hours:** 10 hours
- 11** **Type of training:** Course
Training title: XVII Curso de Introducción a la Investigación en Óptica
Awarding entity: Instituto de Óptica Daza de Valdés **Type of entity:** State agency
Training manager: Francisco Javier García de Abajo
End date: 28/03/2008 **Duration in hours:** 20 hours
- 12** **Type of training:** Course
Training title: Medidas de Emergencia
Awarding entity: Instituto de Cerámica y Vidrio **Type of entity:** State agency
Training manager: Rosa Cuenca Álvarez
End date: 13/03/2008
- 13** **Type of training:** Course
Training title: Riesgos asociados y medidas preventivas en relación a: Orden y limpieza en el puesto de trabajo. Buenas prácticas en el laboratorio. Utilización de equipos de trabajo. Trabajos con hornos y muflas. Seguridad vial. Riesgos eléctricos. EPLs. P.V.D. y manejo manual de cargas
Awarding entity: Instituto de Cerámica y Vidrio **Type of entity:** State agency
Training manager: Rosa Cuenca Álvarez
End date: 13/03/2008
- 14** **Training title:** Patrón de Embarcaciones de Recreo
Awarding entity: Consellería de Pesca e Asuntos Marítimos **Type of entity:** Organismos
End date: 28/02/2008
- 15** **Type of training:** Course
Training title: Curso de “Tecnología Cerámica Aplicada 2007”
City awarding entity: Toledo, Castile-La Mancha, Spain
Awarding entity: ASOCIACION INVESTIGACION Y DESARROLLO INDUSTRIAL DE RECURSOS NATURALES (AITEMIN)
Training manager: Joaquín Obis Sánchez
End date: 24/05/2007
- 16** **Type of training:** Course
Training title: Curso de “Primeros Auxilios para Equipos de Emergencia”
Awarding entity: Universidad de Santiago de Compostela **Type of entity:** University
Training manager: María del Carmen Pardiñas Añón
End date: 23/03/2007 **Duration in hours:** 2 hours



Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
German	A1	A1	A1	A1	A1
Italian	A2	A2	A2	A2	A1
Portuguese	C1	C1	C1	C1	B2
English	C1	C1	C1	C1	C1
Spanish	C2	C2	C2	C2	C2
Gallegan	C2	C2	C2	C2	C2

Teaching experience

Teaching experience in courses and seminars for university teacher training

Type of event: Seminar

Name of the event: Growth of rare-earth oxyorthosilicates by laser floating zone at (i3N)

Organising entity: Universidad de Santiago de Compostela

Type of entity: University

Hours of teaching: 1

Teaching date: 02/12/2016

Scientific and technological experience

Research and development groups/teams

1 Name of the group: INSTITUTE OF NANOSTRUCTURES, NANOMODELLING AND NANOFABRICATION

Aims of the group: Nanoscience

Name of principal investigator: Elvira Maria Correia Fortunato

Type of collaboration: Co-authorship of projects and their development

City of group: Braga, Portugal

Affiliation entity: Universidade do Minho

Type of entity: R&D Centre

Start date: 01/11/2015

Duration: 3 years

2 Name of the group: Laboratorio de Aplicaciones del Láser (LAL)

Aims of the group: radiación láser, sistemas láser, interacción luz-materia, propiedades materiales, funcionalización materiales, química láser

Name of principal investigator: Juan Carlos Díez Moñux

Type of collaboration: Co-authorship of publications

Affiliation entity: Universidad de Zaragoza

Type of entity: University

Start date: 01/01/2011

Duration: 6 years - 10 months - 30 days



- 3 Name of the group:** Network of Excellence on Micro-Optics
Name of principal investigator: Carlos Gómez-Reino Carnota
Standardised code: NEMO **Type of collaboration:** Co-authorship of projects and their development
City of group: Brussels, Belgium
Affiliation entity: Vrije Universiteit Brussel **Type of entity:** University
Identify key words: Optics, electromagnetism; Nonlinear optics; Lasers; Physics - Optical physics; Materials for mems/nems (microelectromechanical systems /nanoelectromechanical systems)
Start date: 01/09/2004 **Duration:** 4 years - 4 months

Scientific or technological activities

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

- 1 Name of the project:** Ultra-versatile Structural PRINTing of amorphous and tuned crystalline matter on multiple substrates - SPRINT
Type of project: Research and development, including transfer **Geographical area:** European Union
Degree of contribution: Researcher
Entity where project took place: Instituto de Ciencia de Materiales de Aragón **Type of entity:** University Research Institute
Name principal investigator (PI, Co-PI....): David Muñoz Rojas
Funding entity or bodies: European Union - H2020
Type of participation: Team member
Name of the programme: H2020-FET-OPEN
Code according to the funding entity: EU H2020-FET-OPEN/0426
Start-End date: 01/09/2018 - 31/08/2021
Participating entity/entities: Artia Nano - Engineering & Consulting IKE; Centre National de la Recherche Scientifique (CNRS; LMPG-Laboratoire des Materiaux et du Genie Physique); Centre for Technology Research and Innovation (CETRI) LTD; Consejo Superior de Investigaciones Científicas (CSIC, Instituto de Ciencia de Materiales de Aragón); Eidgenössische Technische Hochschule (ETH) Zürich (Department of Chemistry and Applied Biosciences); Katholieke Universiteit (KU) Leuven (Centre for Surface Chemistry and Catalysis); Technische Universität (TU) Graz (Institut of Physical and Theoretical Chemistry); Universidade de Porto (Engineering Faculty)
Total amount: 3.000.000 € **Sub-project amount:** 3.000.000 €
Dedication regime: Full time
- 2 Name of the project:** GLaserFix - Solução ecoeficiente para reparação de vidrados em sanitários
Type of project: Research and development, including transfer **Geographical area:** National
Degree of contribution: Researcher
Entity where project took place: Universidade de Aveiro **Type of entity:** University
City of entity: Aveiro, Centro (P), Portugal
Name principal investigator (PI, Co-PI....): Florinda Mendes da Costa
Funding entity or bodies: Governo de Portugal (PT2020) **Type of entity:** Gobierno
City funding entity: Lisboa, Lisboa, Portugal
Type of participation: Team member



Name of the programme: PT2020

Code according to the funding entity: PT2020/17529

Start-End date: 01/09/2016 - 28/02/2019

Participating entity/entities: Centro Tecnológico da Cerâmica e do Vidro (CTCV); MCM (Maio, Carmo, Martins, Lda.); SANINDUSA (Indústria de Sanitários S.A.); Universidade de Aveiro

Total amount: 675.448,84 €

Sub-project amount: 675.448,84 €

- 3 Name of the project:** Materiais para aplicação em Fotónica processados por Laser
Identify key words: Chemical reactions induced by laser; Lasers; Epitaxies and crystalline growth
Type of project: Research and development, including transfer
Degree of contribution: Coordinator of total project, network or consortium
Entity where project took place: i3N & Physics **Type of entity:** University Research Institute Department, University of Aveiro
City of entity: Aveiro, Portugal
Name principal investigator (PI, Co-PI....): Francisco Rey García
Funding entity or bodies: Fundação para a Ciência e a Tecnologia (FCT)
Type of participation: Principal investigator
Name of the programme: Bolsas de Pós-doutoramento - FCT
Code according to the funding entity: SFRH/BPD/108581/2015
Start-End date: 01/11/2015 - 31/10/2018
Total amount: 55.870 € **Sub-project amount:** 55.870 €
Dedication regime: Full time

- 4 Name of the project:** CERAMGLASS - Environmentally Friendly Processing of Ceramics and Glass
Type of project: Research and development, **Geographical area:** European Union including transfer
Degree of contribution: Researcher
Entity where project took place: Instituto de Ciencia **Type of entity:** State agency de Materiales de Aragón
Name principal investigator (PI, Co-PI....): Germán Francisco de la Fuente Leis
Funding entity or bodies: Gobierno de Aragón / FEDER
Type of participation: Team member
Name of the programme: LIFE09
Code according to the funding entity: LIFE09 ENV/ES/000560
Start-End date: 01/06/2012 - 30/06/2015
Participating entity/entities: ASOCIACION INVESTIGACION Y DESARROLLO INDUSTRIAL DE RECURSOS NATURALES (AITEMIN); EASY LASER, S.L.; Instituto de Cerámica y Vidrio ; Instituto de Ciencia de Materiales de Aragón ; Instituto de Ciencia de Materiales de Sevilla (ICMS); Physic GM, S.L.
Total amount: 1.456.870 € **Sub-project amount:** 1.456.870 €
Dedication regime: Full time

- 5 Name of the project:** Tactotec - Tecnologías avanzadas para generar superficies táctiles dirigidas a discapacitados visuales
Type of project: Research and development, **Geographical area:** National including transfer
Degree of contribution: Researcher
Entity where project took place: Tecnoseñal **Type of entity:** Business
City of entity: Herencia, Castile-La Mancha, Spain



Name principal investigator (PI, Co-PI....): Pedro Jesús Álvarez del Pozo; Germán Francisco de la Fuente Leis

Funding entity or bodies:

Centro para el Desarrollo Tecnológico Industrial **Type of entity:** Business

City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Team member

Code according to the funding entity: CDTI-220/01117

Start-End date: 01/10/2012 - 30/09/2014

Participating entity/entities: Centre de Proyecció Térmica (CPT) - Universidad de Barcelona; Instituto de Cerámica y Vidrio ; Instituto de Ciencia de Materiales de Aragón ; Tecnoseñal; Torrecid, S.A.; Universidad de Santiago de Compostela

6 Name of the project: Materiales GRIN activos para conformado de haces

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

Degree of contribution: Researcher

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

Name principal investigator (PI, Co-PI....): María del Carmen Bao Varela

Nº of researchers: 12

Funding entity or bodies:

Ministerio de Ciencia e Innovación **Type of entity:** organismo estatal

City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Team member

Code according to the funding entity: MAT2010-18519

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

Participating entity/entities: UA Microóptica & Óptica GRIN (USC)

Total amount: 72.600 € **Sub-project amount:** 72.600 €

7 Name of the project: IntegraLED

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

Degree of contribution: Researcher

Entity where project took place: Tecnoseñal **Type of entity:** Business

City of entity: Herencia, Castile-La Mancha, Spain

Name principal investigator (PI, Co-PI....): Pedro Jesús Álvarez del Pozo; Germán Francisco de la Fuente Leis

Funding entity or bodies:

Centro para el Desarrollo Tecnológico Industrial **Type of entity:** Business

City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Team member

Code according to the funding entity: CDTI- 220/01117

Start-End date: 01/06/2011 - 28/09/2012

Participating entity/entities: Instituto de Ciencia de Materiales de Aragón ; Tecnoseñal

8 Name of the project: SURFALUX - Materiales innovadores para señalización de seguridad y para señalización en general

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

Degree of contribution: Researcher



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

Name principal investigator (PI, Co-PI....): Carlos Gómez-Reino Carnota

Nº of researchers: 8

Funding entity or bodies:

Centro para el Desarrollo Tecnológico Industrial **Type of entity:** Business

City funding entity: Madrid, Community of Madrid, Spain

Type of participation: Team member

Code according to the funding entity: CDTI SOL-00030930

Start-End date: 01/05/2009 - 01/05/2012

Participating entity/entities: EASY LASER, S.L.; Implaser 99, S.L.; Instituto de Ciencia de Materiales de Aragón ; Monocrom, S.L. ; Señalizaciones NYD, S.A.; Torrecid, S.A.; Universidad de Santiago de Compostela

Total amount: 166.800 €

Sub-project amount: 166.800 €

9 Name of the project: Fritas cerámicas para fabricación de estructuras de guiado de luz en óptica espacial: interconector óptico paralelo e cruzado

Type of project: Research and development, including transfer

Geographical area: National

Degree of contribution: Researcher

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

Name principal investigator (PI, Co-PI....): María Teresa Flores Arias

Nº of researchers: 9

Funding entity or bodies:

Consejería de Educación - Xunta de Galicia / FEDER **Type of entity:** Organismo Autónomico

Type of participation: Team member

Code according to the funding entity: 2008-PG123

Start-End date: 02/08/2008 - 01/08/2011

Total amount: 63.756 €

Sub-project amount: 63.756 €

Dedication regime: Full time

10 Name of the project: Consolidación e estructuración das unidades de investigación do sistema galego de I+D+I. Grupos de investigación (2009-PG458)

Geographical area: Regional

Degree of contribution: Researcher

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

Name principal investigator (PI, Co-PI....): Carlos Gómez-Reino Carnota

Nº of researchers: 9

Funding entity or bodies:

Consejería de Economía - Xunta de Galicia **Type of entity:** Organismo Autónomico

Code according to the funding entity: 2009-PG458

Start-End date: 01/01/2009 - 11/12/2009

Total amount: 17.318 €

Sub-project amount: 17.318 €

11 Name of the project: Nuevas Técnicas para Fabricación de estructuras de guiado de luz en óptica espacial y su aplicación a dispositivos GRIN para interconexiones ópticas (2006-PN074)

Type of project: Research and development, including transfer

Geographical area: National

Degree of contribution: Researcher



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

Name principal investigator (PI, Co-PI....): Carlos Gómez-Reino Carnota

Nº of researchers: 9

Funding entity or bodies:

MINISTERIO DE EDUCACION Y CIENCIA

City funding entity: Spain

Type of participation: Team member

Code according to the funding entity: TEC2006-10469

Start-End date: 01/11/2006 - 31/10/2009

Participating entity/entities: Instituto de Ciencia de Materiales de Aragón ; Universidad de Santiago de Compostela

Total amount: 199.000 €

Sub-project amount: 199.000 €

Dedication regime: Full time

12 Name of the project: Consolidación e estructuración de unidades de investigación competitivas

Geographical area: Regional

Degree of contribution: Researcher

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

Name principal investigator (PI, Co-PI....): Carlos Gómez-Reino Carnota

Nº of researchers: 9

Funding entity or bodies:

Consejería de Innovación e Industria - Xunta de Galicia

Type of entity: Organismo Autónomo

Code according to the funding entity: 2008-PG349

Start-End date: 30/01/2008 - 21/11/2008

Total amount: 17.318 €

Sub-project amount: 17.318 €

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

Name of the project: Obtención de materiales nanoparticulados por láser

Degree of contribution: Researcher

Name principal investigator (PI, Co-PI....): Germán Francisco de la Fuente Leis

Participating entity/entities: Instituto de Ciencia de Materiales de Aragón; Torrecid, S.A.

Start date: 01/03/2006

Duration: 1 year - 9 months



Results

Industrial and intellectual property

Title registered industrial property: LENTE GRIN ACTIVA, PROCEDIMIENTO DE FABRICACIÓN Y SISTEMA QUE COMPRENDE EL USO DE LA LENTE

Type of industrial property: Patent of invention

Inventors/authors/obtainers: Ana Isabel Gómez Varela; María Teresa Flores Arias; María del Carmen Bao Varela; Francisco Rey García

Entity holder of rights: Universidad de Santiago de Compostela

N° of application: P201431252

Country of inscription: Spain

Date of register: 25/08/2014

Conferral date: 22/05/2015

N° of patent: 201431252

Spanish patent: Yes

Operating aut.region/region: Spain

Scientific and technological activities

Scientific production

H index: 8

Date of application: 01/06/2021

Fuente de Índice H: GOOGLE SCHOLAR

Publications, scientific and technical documents

- 1** Francisco Rey García; Benigno José Sieira; Carmen Bao Varela; José Ramón Leis Fidalgo; Luis Alberto Angurel Lambán; José Benito Quintana; Rosario Rodil; Germán F. de la Fuente Leis. Can UV-C laser pulsed irradiation be used for the removal of organic micropollutants from water? Case study with ibuprofen. Science of the Total Environment. 742, pp. 140507. Elsevier, 29/06/2020. ISSN 0048-9697, ISBN 1900222965

DOI: 10.1016/j.scitotenv.2020.140507

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 8

Format: Journal

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

Corresponding author: Yes
- 2** Francisco Rey García; Nuno Miguel Freitas Ferreira; Antonio Jose Silva Fernandes; Florinda Mendes Costa. Processing of the Nd₂O₃:SiO₂ system by Laser Floating Zone in air. Results in Physics. 17, pp. 103180. Elsevier, 25/05/2020. ISSN 2211-3797

DOI: 10.1016/j.rinp.2020.103180

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 4

Format: Journal

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

Corresponding author: Yes



- 3** Ana Isabel Gómez Varela; Francisco Rey García; Isabel de Francisco; María Teresa Flores Arias; Germán F. de la Fuente Leis; Carmen Bao Varela. Fabrication of cylindrical active GRIN media by laser-assisted radial dopant T diffusion: A proof of concept. Results in Physics. 17, pp. 103142. Elsevier, 30/04/2020. ISSN 2211-3797
DOI: 10.1016/j.rinp.2020.103142
Type of production: Scientific paper
Position of signature: 2
Total no. authors: 6
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
- 4** Jose Carlos Almeida; Erika J.C. Davim; I.M. Miranda Salvado; M.H.V. Fernandes; Florinda Mendes Costa; Francisco Rey García; L.M.; Augusto B. Lopes. Red ruby glass from gold nanoparticles obtained by LASiS – a new approach. Journal of Non-Crystalline Solids. 537, pp. 119987. Elsevier, 19/03/2020.
DOI: 10.1016/j.jnoncrysol.2020.119987
Type of production: Scientific paper
Position of signature: 6
Total no. authors: 8
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
- 5** Francisco Rey García; Florinda Mendes costa; Carlos Zaldo Luaces. Laser floating zone growth of Yb, or Nd, doped (Lu_{0.3}Gd_{0.7})₂SiO₅ oxyorthosilicate single-crystal rods with efficient laser performance. Journal of Materials Chemistry C. Royal Society of Chemistry, 09/01/2020.
DOI: 10.1039/c9tc05910e
Type of production: Scientific paper
Position of signature: 1
Total no. authors: 3
Impact source: SCOPUS
Impact index in year of publication: 6.641
Position of publication: 30
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Category: Chemistry (miscellaneous)
Journal in the top 25%: Yes
No. of journals in the cat.: 437
Impact source: IN-RECS
Impact index in year of publication: 6.641
Position of publication: 14
Category: Materials Chemistry
Journal in the top 25%: Yes
No. of journals in the cat.: 302
- 6** Francisco Rey García; Joana Rodrigues; Teresa Monteiro; Florinda M Costa. Intense red emission on dilute Mn-doped CaYAIO₄ based ceramics obtained by laser floating zone. Journal of Materials Science: Materials in Electronics. 30 - 24, pp. 21454 - 21464. Springer - Nature, 16/11/2019.
Type of production: Scientific paper
Position of signature: 1
Total no. authors: 4
Impact source: SCOPUS
Impact index in year of publication: 2.195
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: Yes
Category: Electronic, Optical and Magnetic Materials
Journal in the top 25%: No
- 7** Jorge Carneiro; Célia María S Freitas; Regina Santos; Nuno Miguel Freitas Ferreira; Francisco Rey García; Antonio Jose Silva Fernandes; María Paula Seabra; Florinda M Costa. Laser technology for the rapid repair of defects in sanitary ware: prospects and challenges. Ceramics in Modern Technologies. Techna Group Srl., 28/09/2019.
Type of production: Scientific paper
Position of signature: 5
Format: Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee

**Total no. authors:** 8**Corresponding author:** No

- 8** Francisco Rey García; Joana Rodrigues; Antonio J. Silva Fernandes; Maria Rosario Soares; Teresa Monteiro; Florinda Mendes Costa. (Lu_{0.3}Gd_{0.7})₂SiO₅:Y³⁺ single crystal grown by Laser Floating Zone: structural and optical studies. CrystEngComm. Royal Society of Chemistry, 29/10/2018.

DOI: 10.1039/C8CE01319E**Type of production:** Scientific paper**Position of signature:** 1**Total no. authors:** 6**Impact source:** SCOPUS**Impact index in year of publication:** 3,304**Position of publication:** 62**Impact source:** SCOPUS**Impact index in year of publication:** 3,304**Position of publication:** 8**Source of citations:** Google Scholar**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Category:** Science Edition - CHEMISTRY, PHYSICAL**Journal in the top 25%:** No**No. of journals in the cat.:** 171**Category:** Science Edition - CRYSTALLOGRAPHY**Journal in the top 25%:** No**No. of journals in the cat.:** 26**Citations:** 1

- 9** Victor J. Rico Gaviria; Ruth Lahoz; Francisco Rey García; Isabel de Francisco; Jorge Gil Rostra; Juan Pedro Espinós; Germán F. de la Fuente; Agustín Rodríguez González-Elipe. Laser induced coloration of ceramic tiles covered with magnetron sputtered precursor layers. Journal of the American Ceramic Society. 1, Wiley, 24/08/2018.

DOI: 10.1111/jace.16022**Type of production:** Scientific paper**Position of signature:** 3**Total no. authors:** 8**Impact source:** SCOPUS**Impact index in year of publication:** 2,956**Position of publication:** 3**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** No**Category:** Science Edition - MATERIALS SCIENCE, CERAMICS**Journal in the top 25%:** Yes**No. of journals in the cat.:** 27

- 10** Francisco Rey García; Florinda Mendes Costa; Antonio J. Silva Fernandes; Filipe J. Oliveira; Luis; Carmen Bao Varela. Grey scale promoted through laser ablation onto phosphate coated zinc commercial plates. Optics and Lasers in Engineering. 108, pp. 78 - 86. Elsevier, 10/05/2018.

DOI: 10.1016/j.optlaseng.2018.04.018**Type of production:** Scientific paper**Position of signature:** 1**Total no. authors:** 6**Impact source:** SCOPUS**Impact index in year of publication:** 3,388**Position of publication:** 17**Format:** Journal**Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee**Corresponding author:** Yes**Category:** Science Edition - OPTICS**Journal in the top 25%:** Yes**No. of journals in the cat.:** 94

- 11** Francisco Rey García; Antonio J. Silva Fernandes; Florinda Mendes Costa. Influence of Lu content on (Lu_xGd_{1-x})₂SiO₅ oxyorthosilicates grown by Laser Floating Zone: Structural studies and transparency. Materials Research Bulletin. Elsevier, 01/05/2018.

DOI: 10.1016/j.materresbull.2018.04.058**Type of production:** Scientific paper**Format:** Scientific and technical document or report



Position of signature: 1

Total no. authors: 3

Impact source: SCOPUS

Impact index in year of publication: 2,873

Position of publication: 91

Source of citations: Google Scholar

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

Corresponding author: Yes

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: No

No. of journals in the cat.: 285

Citations: 2

- 12** Francisco Rey García; Felipe Gutiérrez Mora; Carlos J. Borrel; Luis Carlos Estepa; Luis Alberto Angurel; Germán Francisco de la Fuente Leis. Microstructural characterization and tribological behavior of Laser Furnace processed ceramic tiles. *Ceramics International*. Elsevier, 02/02/2018. ISSN 0272-8842

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 6

Impact source: SCOPUS

Impact index in year of publication: 3,057

Position of publication: 2

Source of citations: Google Scholar

Format: Journal

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

Corresponding author: No

Category: Science Edition - MATERIALS SCIENCE, CERAMICS

Journal in the top 25%: Yes

No. of journals in the cat.: 27

Citations: 6

- 13** Francisco Rey García; Nabih Ben Sedrine; Antonio Jose Silva Fernandes; Teresa; Florinda Mendes Costa. Shifting Lu₂SiO₅ crystal to eutectic structure by laser floating zone. *Journal of the European Ceramic Society*. 38 - 4, pp. 2059 - 2067. Elsevier, 04/11/2017. Available on-line at: <<http://dx.doi.org/10.1016/j.jeurceramsoc.2017.11.003>>.

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 5

Impact source: ISI

Impact index in year of publication: 3,794

Position of publication: 1

Source of citations: Google Scholar

Format: Journal

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

Corresponding author: Yes

Category: Science Edition - MATERIALS SCIENCE, CERAMICS

Journal in the top 25%: Yes

No. of journals in the cat.: 27

Citations: 3

- 14** Francisco Rey García; María Teresa Flores Arias; Luis Carlos Estepa; Wilfried Assenmacher; Werner Mader; Germán Francisco de la Fuente Leis. Laser Zone Melting and microstructure of waveguide coatings obtained on soda-lime glass. *International Journal of Applied Glass Science*. 8, pp. 329 - 336. The American Ceramic Society and Wiley Periodicals, Inc, 20/03/2017.

Type of production: Scientific paper

Position of signature: 1

Total no. authors: 6

Impact source: ISI

Impact index in year of publication: 1,790

Position of publication: 5

Format: Journal

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

Corresponding author: No

Category: Science Edition - MATERIALS SCIENCE, CERAMICS

Journal in the top 25%: Yes

No. of journals in the cat.: 26



Source of citations: Google Scholar & Scopus & JCR **Citations:** 1

Relevant results: Cover Image, 8, 3 (September 2017), DOI: 10.1111/ijag.12235.

- 15** Francisco Rey García; Nabih Ben Sedrine; María do Rosario; Amtonio Jose Silva Fernandes; Augusto B. Lopes; Nuno Miguel Freitas Ferreira; Teresa Maria Fernandes Rodrigues Cabral Monteiro; Florinda Mendes Costa. Structural and optical characterization of Gd₂SiO₅ crystalline fibres obtained by laser floating zone. Optical Materials Express. 7 - 3, pp. 868 - 879. OSA Publishing, 01/03/2017.
- Type of production:** Scientific paper **Format:** Journal
Position of signature: 1 **Degree of contribution:** Author or co-author of article in journal with external admissions assessment committee
Total no. authors: 8 **Corresponding author:** Yes
Impact source: ISI **Category:** Science Edition - OPTICS
Impact index in year of publication: 2,591 **No. of journals in the cat.:** 92
Position of publication: 27 **Journal in the top 25%:** No
Impact source: ISI **Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Impact index in year of publication: 2,591 **No. of journals in the cat.:** 275
Position of publication: 89 **Citations:** 7
Source of citations: Google Scholar
- 16** Victor J. Rico Gavira; Ruth Lahoz; Francisco Rey García; Francisco Yubero; Juan Pedro Espinós; Germán Francisco de la Fuente Leis; Agustín Rodríguez González-Elipse. Laser treatment of nanoparticulated metal thin films for ceramic tile decoration. ACS Applied Materials & Interfaces. 8 - 37, pp. 24880 - 24886. ACS, 24/08/2016. DOI: 10.1021/acsami.6b07469
- Type of production:** Scientific paper **Format:** Journal
Degree of contribution: Author or co-author of article in journal with external admissions assessment committee
Corresponding author: No
Impact source: ISI **Category:** Science Edition - NANOSCIENCE & NANOTECHNOLOGY
Impact index in year of publication: 7,504 **Journal in the top 25%:** Yes
Position of publication: 12 **No. of journals in the cat.:** 87
Impact source: ISI **Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Impact index in year of publication: 7,504 **Journal in the top 25%:** Yes
Position of publication: 22 **No. of journals in the cat.:** 275
Source of citations: Google Scholar **Citations:** 6
- 17** Eliseo Pérez; Francisco Rey García; María del Carmen Bao Varela; Germán Francisco de la Fuente Leis; Álvaro Dosil; Abraham Antonio Gallas; Pablo Rodríguez. Laser Micromachining and Characterization of Metal-on-Glass High Density Pitch Adapters. Journal of Microelectromechanical Systems. 24 - 5, pp. 1479 - 1486. IEEE, 25/03/2015. Available on-line at: <10.1109/JMEMS.2015.2413051>.
- Type of production:** Scientific paper **Format:** Journal
Corresponding author: Yes **Category:** Science Edition - ENGINEERING, MECHANICAL
Impact source: ISI **Journal in the top 25%:** Yes
Impact index in year of publication: 1,939 **No. of journals in the cat.:** 132
Position of publication: 29
Impact source: ISI

**Impact index in year of publication:** 1,939**Position of publication:** 73**Source of citations:** Google Scholar**Category:** Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC**Journal in the top 25%:** No**No. of journals in the cat.:** 257**Citations:** 1

- 18** Francisco Rey García; Vassily Lennikov; Hypolite Ameveda; Carlos Laliena; Mario Mora; Elena Martínez; María del Carmen Bao Varela; Luis Alberto Angurel Lambán; Germán Francisco de la Fuente Leis. Effect of Laser Treatments on the Microstructure and Physical Properties of Bi-2212 and Gd-123 bulk Samples. IEEE Transactions on Applied Superconductivity. 25 - 3, pp. 6800604. IEEE, 25/08/2014. Available on-line at: <10.1109/TASC.2014.2365411>.

Type of production: Scientific paper**Format:** Journal**Corresponding author:** No**Impact source:** ISI**Category:** Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC**Impact index in year of publication:** 1,235**Journal in the top 25%:** No**Position of publication:** 125**No. of journals in the cat.:** 249**Impact source:** ISI**Category:** Science Edition - PHYSICS, APPLIED**Impact index in year of publication:** 1,235**Journal in the top 25%:** No**Position of publication:** 92**No. of journals in the cat.:** 144**Source of citations:** Google Scholar**Citations:** 1

- 19** Ferran Cambronero López; Francisco Rey García; María del Carmen Bao Varela; Luis Carlos Estepa Millán; Germán Francisco de la Fuente Leis. Metallic coatings obtained by Pulsed Laser Deposition through a dynamic prism system. Proceedings of SPIE 9135, Laser Sources and Applications II. 9135, pp. 913510-1 - 913510-7. SPIE, 01/05/2014. ISBN 9781628410839

DOI: 10.1117/12.2051499**Type of production:** Scientific paper**Format:** Journal**Corresponding author:** No

- 20** Francisco Rey García; María Teresa Flores Arias; Carlos Gómez-Reino Carnota; Ruth Lahoz; Germán Francisco de la Fuente Leis; Wilfried Assenmacher; Werner Mader. Microstructure of planar glass substrates modified by Laser Ablation Backwriting (LAB) of metal targets. Applied Surface Science. 307, pp. 645 - 653. Elsevier, 23/04/2014.

DOI: 10.1016/j.apsusc.2014.04.091**Type of production:** Scientific paper**Format:** Journal**Corresponding author:** No**Impact source:** ISI**Category:** Science Edition - PHYSICS, CONDENSED MATTER**Impact index in year of publication:** 2,711**Journal in the top 25%:** No**Position of publication:** 17**No. of journals in the cat.:** 67**Impact source:** ISI**Category:** Science Edition - MATERIALS SCIENCE, COATINGS & FILMS**Impact index in year of publication:** 2,711**Journal in the top 25%:** Yes**Position of publication:** 2**No. of journals in the cat.:** 17**Impact source:** ISI**Category:** Science Edition - PHYSICS, APPLIED**Impact index in year of publication:** 2,711**Journal in the top 25%:** Yes**Position of publication:** 28**No. of journals in the cat.:** 144



Impact source: ISI
Impact index in year of publication: 2,711
Position of publication: 51
Source of citations: Google Scholar

Category: Science Edition - CHEMISTRY, PHYSICAL
Journal in the top 25%: No
No. of journals in the cat.: 139
Citations: 7

- 21** Francisco Rey García; María del Carmen Bao Varela; Eliseo Pérez; Pablo Rodríguez; Abraham Antonio Gallas; Germán Francisco de la Fuente Leis. Fabrication of high-density pitch adapters by laser ablation. Proceedings of SPIE 9133, Silicon Photonics and Photonic Integrated Circuits IV. 91330U, pp. 91330U-1 - 91330U-7. SPIE, 14/04/2014. ISBN 9781628410815

DOI: 10.1117/12.2051502

Type of production: Scientific paper

Format: Journal

Corresponding author: No

Source of citations: Google Scholar

Citations: 1

- 22** Francisco Rey García; María Teresa Flores Arias; Carlos Gómez-Reino Carnota; Germán Francisco de la Fuente Leis; Wilfried Assenmacher; Werner Mader. Planar Step-Index Waveguides Obtained via Sol-Gel Synthesis from Organometallic Precursors. Journal of Sol-Gel Science and Technology. 68, pp. 39 - 45. Springer, 10/08/2013.

DOI: 10.1007/s10971-013-3131-5

Type of production: Scientific paper

Format: Journal

Corresponding author: No

Impact source: ISI

Category: Science Edition - MATERIALS SCIENCE, CERAMICS

Impact index in year of publication: 1,547

Journal in the top 25%: Yes

Position of publication: 6

No. of journals in the cat.: 25

Source of citations: Google Scholar

Citations: 2

- 23** Francisco Rey García; María del Carmen Bao Varela; Germán Francisco de la Fuente Leis; Carlos Gómez-Reino Carnota; Eliseo Pérez; Pablo Rodríguez; Abraham Antonio Gallas; Antonio Pazos; Bernardo Adeva; Ana Alonso; Xesús Prieto Blanco. Fabrication of Metal-on-Glass High-Pitch adapters between VLSI electronics and semiconductor sensors by Laser Ablation. Journal of Lightwave Technology. 31 - 14, pp. 2327 - 2331. IEEE, 15/07/2013.

DOI: 10.1109/JLT.2013.2265271

Type of production: Scientific paper

Format: Journal

Corresponding author: No

Impact source: ISI

Category: Science Edition - OPTICS

Impact index in year of publication: 2,862

Journal in the top 25%: Yes

Position of publication: 16

No. of journals in the cat.: 83

Impact source: ISI

Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC

Impact index in year of publication: 2,862

Journal in the top 25%: Yes

Position of publication: 32

No. of journals in the cat.: 248

Impact source: ISI

Category: Science Edition - TELECOMMUNICATIONS

Impact index in year of publication: 2,862

Journal in the top 25%: Yes

Position of publication: 7

No. of journals in the cat.: 78

Source of citations: Google

Citations: 4

- 24** Francisco Rey García; María Teresa Flores Arias; Carlos Gómez-Reino Carnota; Germán Francisco de la Fuente Leis; Wilfried Assenmacher; Werner Mader; Simone Berneschi; Stefano Pelli; Gualtiero Nunzi-Conti; Giancarlo Righini. Structural and optical characterization of ZrO₂:CeO₂ slab waveguides obtained via Sol-Gel. *Optical Materials*. 35, pp. 97 - 101. Elsevier, 28/09/2012.
DOI: 10.1016/j.optmat.2012.07.016
Type of production: Scientific paper
Corresponding author: No
Impact source: ISI
Impact index in year of publication: 1,918
Position of publication: 24
Impact source: ISI
Impact index in year of publication: 1,918
Position of publication: 70
Source of citations: Google Scholar
- Format:** Journal
Category: Science Edition - OPTICS
Journal in the top 25%: No
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.: 241
Citations: 13
- 25** Francisco Rey García; Carlos Gómez-Reino Canota; María Teresa Flores Arias; Germán Francisco de la Fuente Leis; Wilfried Assenmacher; Werner Mader; Simone Berneschi; Stefano Pelli; Gualtiero Nunzi-Conti; Giancarlo Righini. Characterization of planar waveguides fabricated by multiple Sol-Gel dip-coatings. *Proceedings of SPIE 8011, 22nd Congress of the International Commission for Optics: Light for the Development of the World*. 8011, pp. 80110R-1 - 80110R-8. SPIE, 20/10/2011. ISBN 9780819485854
DOI: 10.1117/12.902048
Type of production: Scientific paper
Corresponding author: No
- Format:** Journal
- 26** Francisco Rey García; Carlos Gómez-Reino Carnota; María Teresa Flores Arias; Germán Francisco de la Fuente Leis; Wilfried Assenmacher; Werner Mader. Structural and optical characterisation of planar waveguides obtained via Sol-Gel. *Proceedings of SPIE 8001, International Conference on Applications of Optics and Photonics*. 8001, pp. 800116-1 - 800116-8. SPIE, 25/07/2011. ISBN 9780819485755
DOI: 10.1117/12.891941
Type of production: Scientific paper
Corresponding author: No
- Format:** Journal
- 27** Francisco Rey García; Carlos Gómez-Reino Carnota; María Teresa Flores Arias; Germán Francisco de la Fuente Leis; Alicia Durán; Yolanda Castro. Sol-gel coatings: An alternative route for producing planar optical waveguides. *Thin Solid Films*. 519, pp. 7982 - 7986. Elsevier, 26/05/2011.
DOI: 10.1016/j.tsf.2011.05.054
Type of production: Scientific paper
Corresponding author: No
Impact source: ISI
Impact index in year of publication: 1,890
Position of publication: 24
Impact source: ISI
Impact index in year of publication: 1,890
Position of publication: 4
Impact source: ISI
Impact index in year of publication: 1,890
- Format:** Journal
Category: Science Edition - PHYSICS, CONDENSED MATTER
Journal in the top 25%: No
No. of journals in the cat.: 68
Category: Science Edition - MATERIALS SCIENCE, COATINGS & FILMS
Journal in the top 25%: Yes
No. of journals in the cat.: 18
Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: No



Position of publication: 41

Impact source: ISI

Impact index in year of publication: 1,890

Position of publication: 69

Source of citations: SCOPUS

No. of journals in the cat.: 125

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: No

No. of journals in the cat.: 232

Citations: 16

28 Francisco Rey García; Carmen Bao Varela; Florinda M. Costa. Laser Floating Zone: General Overview Focusing on the Oxyorthosilicates Growth. Synthesis methods and Crystallization. IntechOpen, 25/11/2019. ISBN 978-1-83880-224-0

DOI: 10.5772/intechopen.90309

Type of production: Book chapter

Position of signature: 1

Total no. authors: 3

Format: Book

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

Corresponding author: Yes

29 Francisco Rey García; Rafael Ibáñez; Luis Alberto Angurel Lambán; Florinda Mendes Costa; Germán Francisco de la Fuente Leis. Laser Floating Zone Growth: Overview, Singular Materials, Broad Applications, and Future Perspectives. Crystals. 11, pp. 38. MDPI, 31/12/2020. ISSN 2073-4352

DOI: 10.3390/cryst11010038

Type of production: Review

Position of signature: 1

Total no. authors: 5

Reviews in journals: 1

Format: Scientific and technical document or report

Degree of contribution: Author or co-author of review

Corresponding author: Yes

30 Francisco Rey García. Planar Waveguides Obtained on Commercial Glass Substrates by Sol-gel and Laser Irradiation Methods. Universidade de Santiago de Compostela, 17/02/2012.

Type of production: Doctoral Thesis

Source of citations: Google Scholar

Citations: 6

Works submitted to national or international conferences

- 1** **Title of the work:** Laser Line Processing, Simulation and Experiments
Name of the conference: Materials Info 2021: 2nd Virtual Congress on Materials Science
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication
Corresponding author: No
City of event: virtual,
Date of event: 29/03/2021
End date: 31/03/2021
Organising entity: Mindauthors
Héctor Santos Barahona; E. Lacruz; A. Frechilla; Jose Antonio Bea; Francisco Rey García; F. Toldra; David Muñoz Rojas; Luis Alberto Angurel Lambán; Germán F. de la Fuente Leis.
- 2** **Title of the work:** Laser interaction with molecular contaminants in water
Name of the conference: E-meeting on Advanced Catalysis (Adcat-2021)
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication
Corresponding author: No



City of event: virtual,

Date of event: 11/03/2021

End date: 12/03/2021

Organising entity: Coalesce Research Group

Type of entity: Associations and Groups

City organizing entity: Greenville, United States of America

Francisco Rey García; Benigno José Sieira; Carmen Bao Varela; Luis Alberto Angurel Lambán; Jose Benito Quintana; Rosario Rodil; Germán F. de la Fuente Leis; Jose Ramón Leis.

3 Title of the work: Laser Furnace Processing of Ceramic Materials

Name of the conference: Materials Info 2020: Virtual Congress on Materials Science & Engineering

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - oral communication

Corresponding author: No

City of event: (Internet),

Date of event: 09/11/2020

End date: 10/11/2020

Organising entity: Mind Authors Inc.

Type of entity: Business

City organizing entity: Middletown, United States of America

With external admission assessment committee: Yes

Germán Francisco de la Fuente Leis; Hector Santos Barahona; Hippolite Amaveda; Jose Antonio Bea; Francisco Rey García; Carmen Bao Varela; Luis Alberto Angurel Lambán. Available on-line at: <<https://materialsinfo.mindauthors.com/nov-2020/>>.

4 Title of the work: Laser line scan processing of rare-earth doped Sr-Al-O ceramics

Name of the conference: EC-XIV: XIV Reunión Nacional de Electrocerámica

Type of event: Conference

Geographical area: National

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

Corresponding author: No

City of event: Castellón, Valencian Community, Spain

Date of event: 26/06/2019

End date: 28/06/2019

Organising entity: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO

Héctor Santos Barahona; Luis Alberto Angurel Lambán; Francisco Rey García; Carmen Bao Varela; W. Pan; Germán F. de la Fuente Leis.

5 Title of the work: Laser induced High Temperature Surface Chemistry

Name of the conference: XXXVII Reunión Bienal da la RSEQ

Type of event: Conference

Geographical area: National

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

Corresponding author: Yes

City of event: Donostia - San Sebastián,

Date of event: 26/05/2019

End date: 30/05/2019

Organising entity: Real Sociedad Española de Química

Type of entity: organisation

Francisco Rey García; Víctor Rico Gavira; Carmen Bao Varela; Luis Alberto Angurel Lambán; Agustín Rodríguez González-Elipe; Germán F de la Fuente Leis.



- 6** **Title of the work:** Tuning properties of materials by laser processing
Name of the conference: Materiais 2019 – XIX Congresso da Sociedade Portuguesa dos Materiais and X International Symposium on Materials
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: Lisboa, Portugal
Date of event: 14/04/2019
End date: 17/04/2019
Organising entity: Sociedade Portuguesa dos Materiais (SPM)
With external admission assessment committee: Yes
Alexandre Carvalho; Nuno M. Ferreira; Bohdan Kulyk; Nuno Santos; Ana Brinca; María Relvas; Francisco Rey García; Guilherme Gaspar; I. Azevedo; Joana Rodrigues; Teresa Monteiro; Antonio Fernandes; Florinda Costa.
- 7** **Title of the work:** Red glasses from gold nanoparticles produced by laser ablation synthesis in solution
Name of the conference: V Congresso Luso-Espanhol de Cerâmica e Vidro - LVI Congreso Anual de la Sociedad Española de Cerámica y Vidrio
Type of event: Conference **Geographical area:** European Union
Type of participation: 'Participatory - poster **Reasons for participation:** Review before acceptance
City of event: Barcelona,
Date of event: 08/10/2018
End date: 10/10/2018
Organising entity: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO
With external admission assessment committee: Yes
Erica J.C. Davim; Jose Carlos Almeida; I.M. Miranda Salvado; M.H.V. Fernandes; Francisco Rey García; Florinda Mendes Costa; L.M. Francisco; Augusto B. Lopes.
- 8** **Title of the work:** Local treatment of defects on glazed ceramics surface by laser technology
Name of the conference: CNMat2018 - XIV Congreso Nacional de Materiales and I Iberian Meeting on Materials Science
Type of event: Conference **Geographical area:** European Union
Type of participation: 'Participatory - poster
City of event: Salamanca, Castile and León, Spain
Date of event: 04/07/2018
End date: 06/07/2018
Organising entity: Universidad de Salamanca **Type of entity:** University
With external admission assessment committee: Yes
Célia M. S. Freitas; Jorge; Marinélia N. Capela; Regina; Nuno Miguel; Francisco Rey García; Antonio J. Silva Fernandes; María Paula; Florinda Mendes Costa.
- 9** **Title of the work:** Particular ceramics obtained by Laser Floating Zone for photonic and electrical applications
Name of the conference: CNMat2018 - XIV Congreso Nacional de Materiales and I Iberian Meeting on Materials Science
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - oral communication
Corresponding author: Yes
City of event: Salamanca, Castile and León, Spain
Date of event: 04/07/2018



End date: 06/07/2018

Organising entity: Universidad de Salamanca **Type of entity:** University

With external admission assessment committee: Yes

Francisco Rey García; Nabih Ben Sedrine; Joana; Nuno Miguel; Antonio J. Silva Fernandes; Teresa; Florinda Mendes Costa.

- 10 Title of the work:** Restoration of deep defects on glazed ceramics by a two-step bi-layer CO₂ laser treatment
Name of the conference: CNMat2018 - XIV Congreso Nacional de Materiales and Iberian Meeting on Materials Science
Type of event: Conference **Geographical area:** European Union
Type of participation: 'Participatory - poster
City of event: Salamanca, Castile and León, Spain
Date of event: 04/07/2018
End date: 06/07/2018
Organising entity: Universidad de Salamanca **Type of entity:** University
With external admission assessment committee: Yes
Francisco Rey García; Célia M. S. Freitas; Jorge; Marinélia N. Capela; Regina; Nuno Miguel; Antonio J. Silva Fernandes; María Paula; Florinda Mendes Costa.

- 11 Title of the work:** Local treatment of defects on glazed ceramics surface by laser technology
Name of the conference: Jornadas CICECO 2018
Type of event: Conference **Geographical area:** Non EU International
Type of participation: 'Participatory - poster
City of event: Aveiro, Centro (P), Portugal
Date of event: 11/06/2018
End date: 12/06/2018
Organising entity: Aveiro Institute of Materials (CICECO) - University of Aveiro
With external admission assessment committee: Yes
Jorge; Célia M. S. Freitas; Marinélia N. Capela; Regina; Nuno Miguel; Francisco Rey García; Antonio J. Silva Fernandes; María Paula; Florinda Mendes Costa.

- 12 Title of the work:** Oxyorthosilicates obtained by Laser Floating Zone: from photonic to electrical applications
Name of the conference: Materiais 2017 – XVIII Congresso da Sociedade Portuguesa dos Materiais – VIII International Symposium on Materials
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication **Reasons for participation:** Review before acceptance
Corresponding author: Yes
City of event: Aveiro, Portugal
Date of event: 09/04/2017
End date: 12/04/2017
Organising entity: Sociedade Portuguesa dos Materiais **Type of entity:** Associations and Groups
City organizing entity: Portugal
Francisco Rey García; Nuno Miguel Freitas Ferreira; Nabih Ben Sedrine; Antonio Jose Silva Fernandes; Maria Rosario; Augusto; Teresa Maria Fernandes Rodrigues Cabral Monteiro; Florinda Mendes Costa.

- 13 Title of the work:** Gd and Lu oxyorthosilicates obtained by Laser Floating Zone for photonic applications
Name of the conference: VI Annual Meeting i3N
Type of event: Workshop **Geographical area:** National
Type of participation: 'Participatory - poster



Reasons for participation: Review before acceptance

Corresponding author: Yes

City of event: Lisboa, Portugal

Date of event: 24/02/2017

End date: 25/02/2017

Organising entity: i3N, Institute of Nanostructures, Nanomodelling and Nanofabrication

Type of entity: R&D Centre

City organizing entity: Braga, Portugal

Francisco Rey García; Nabiha Ben Sedrine; Antonio Jose Silva Fernandes; Teresa Maria Rodrigues Ferandes Cabral Monteiro; Florinda Mendes Costa.

14 Title of the work: Overview of the research done by the NMBS group in the last two years

Name of the conference: VI Annual Meeting i3N

Type of event: Workshop

Geographical area: National

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

Corresponding author: No

City of event: Lisboa, Portugal

Date of event: 24/02/2017

End date: 25/02/2017

Organising entity: i3N, Institute of Nanostructures, Nanomodelling and Nanofabrication

Type of entity: R&D Centre

City organizing entity: Braga, Portugal

Manuel Almeida Valente; Luís Manuel Cadillon Costa; Florinda Mendes Costa; Manuel Pedro Fernandes Graça; F.; Eskilla Venkata Ramana; Jakka Suresh Kumar; Nuno Miguel Freitas Ferreira; Krishnapuram Pavani; Francisco Rey García.

15 Title of the work: Propiedades mecánicas de baldosas cerámicas obtenidas en horno laser

Name of the conference: LV Congreso Anual de la Sociedad Española de Cerámica y Vidrio

Type of event: Conference

Geographical area: National

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

City of event: Sevilla, Andalusia, Spain

Date of event: 05/10/2016

End date: 07/10/2016

Organising entity: Universidad de Sevilla

Type of entity: University

Felipe Gutiérrez Mora; Francisco Rey García; Juan Carlos Borrell; Luis Alberto Angurel Lambán; Luis Carlos Estepa; Germán Francisco de la Fuente Leis.

16 Title of the work: Continuous fabrication of large area Bi-2212 superconducting coatings

Name of the conference: EUCAS 2015 - 12th European Conference on Applied Superconductivity

Type of event: Conference

Geographical area: European Union

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

City of event: Lyon, Rhône-Alpes, France

Date of event: 06/09/2015

End date: 10/09/2015

Organising entity: ESAS - European Society for Applied Superconductivity

Type of entity: Associations and Groups

City organizing entity: Enschede, Overijssel, Holland



Carlos Laliena; Vassilly Lennikov; Francisco Rey García; Hyppolite Amaveda; Mario Mora; Sara Moya; Oscar Ruiz; Germán Francisco de la Fuente Leis; Luis Alberto Angurel Lambán.

17 Title of the work: Improvement of thermal contact between 2G superconducting coils and cooper plates in conduction cooled systems

Name of the conference: EUCAS 2015 - 12th European Conference on Applied Superconductivity

Type of event: Conference

Geographical area: European Union

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

City of event: Lyon, Rhône-Alpes, France

Date of event: 06/09/2015

End date: 10/09/2015

Organising entity: ESAS - European Society for Applied Superconductivity

Type of entity: Associations and Groups

City organizing entity: Enschede, Overijssel, Holland

Ana B. Núñez Chico; Francisco Rey García; Elena Martínez; Germán Francisco de la Fuente Leis; Isabel García Cano; Sergi Dosta; Luis Alberto Angurel Lambán.

18 Title of the work: Laser Furnace coating synthesis under extreme conditions

Name of the conference: XXXV Bienal RSEQ. Real Sociedad Española de Química

Type of event: Conference

Geographical area: National

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

City of event: A Coruña,

Date of event: 19/07/2015

End date: 23/07/2015

Organising entity: Universidade da Coruña

Type of entity: University

City organizing entity: A Coruña,

Francisco Rey García; Carlos Borrell; Vassilly Lennikov; Isabel de Francisco García; Luis Carlos Estepa Millán; María del Carmen Bao Varela; Luis Alberto Angurel Lambán; Germán Francisco de la Fuente Leis.

19 Title of the work: Laser ablation as a prototyping technology for optoelectronics interconnections: silicon detectors

Name of the conference: OPTOEL'15 - 9a Reunión Española de Optoelectrónica

Type of event: Conference

Geographical area: National

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

City of event: Salamanca, Castile and León, Spain

Date of event: 13/07/2015

End date: 15/07/2015

Organising entity: Universidad de Salamanca

Type of entity: University

Francisco Rey García; Eliseo Pérez; María del Carmen Bao Varela; Álvaro Dosil; Pablo Rodríguez; Germán Francisco de la Fuente Leis; Abraham Antonio Gallas.

20 Title of the work: Processing of superconducting bulk materials using continuous furnaces

Name of the conference: MSM15 - 9th International Conference on Magnetic and Superconducting Materials

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - invited/keynote talk

Reasons for participation: Upon invitation

City of event: Antalya, Turkey

Date of event: 30/04/2015



End date: 03/05/2015

Organising entity: İnönü Üniversitesi

City organizing entity: Malatya, Turkey

Carlos Laliena; Vassily Lennikov; Francisco Rey García; Hyppolite Amaveda; Belkir Özçelik; Germán Francisco de la Fuente Leis; Luis Alberto Angurel Lambán.

21 Title of the work: Laser Selective Coloring of Ceramic Materials Functionalized with Deposited Metal Nanoparticles and Oxide Layers

Name of the conference: MSE 2014 - Materials Science Engineering

Type of event: Conference

Geographical area: European Union

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

City of event: Darmstadt, Darmstadt, Germany

Date of event: 23/09/2014

End date: 25/09/2014

Organising entity: Deutsche Gesellschaft für Materialkunde (DGM)

Type of entity: Associations and Groups

City organizing entity: Frankfurt am Main, Darmstadt, Germany

Victor Rico Gavira; Jorge Gil Rostra; Francisco Yubero; Juan Pedro Espinós; Agustín Rodríguez González-Elipe; Ruth Lahoz; Francisco Rey García; Germán Francisco de la Fuente Leis.

22 Title of the work: Laser Synthesis of Al₂O₃/MO Composite Coatings with M= Mn, Co, Ca

Name of the conference: MSE 2014 - Materials Science Engineering

Type of event: Conference

Geographical area: European Union

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

City of event: Darmstadt, Darmstadt, Germany

Date of event: 23/09/2014

End date: 25/09/2014

Organising entity: Deutsche Gesellschaft für Materialkunde (DGM)

Type of entity: Associations and Groups

City organizing entity: Frankfurt am Main, Darmstadt, Germany

Isabel de Francisco García; Francisco Rey García; Germán Francisco de la Fuente Leis; María del Carmen Bao Varela; Jose Antonio Bea; Ángel Vegas; Juan Bautista Carda.

23 Title of the work: Preparation of metallic coatings by Laser Ablation processes

Name of the conference: MSE 2014 - Materials Science Engineering

Type of event: Conference

Geographical area: European Union

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

City of event: Darmstadt, Darmstadt, Germany

Date of event: 23/09/2014

End date: 25/09/2014

Organising entity: Deutsche Gesellschaft für Materialkunde (DGM)

Type of entity: Associations and Groups

City organizing entity: Frankfurt am Main, Darmstadt, Germany

Francisco Rey García; Ferran Cambronero López; María del Carmen Bao Varela; Ruth Lahoz; Luis Alberto Angurel Lambán; Luis Carlos Estepa Millán; Germán Francisco de la Fuente Leis.

24 Title of the work: High-density Pitch Adapters fabricated by Laser Ablation

Name of the conference: ICO23 - General Congress of the International Commission for Optics

Type of event: Conference

Geographical area: Non EU International



Type of participation: Participatory - oral communication

City of event: Santiago de Compostela,

Date of event: 26/08/2014

End date: 29/08/2014

Organising entity: SOCIEDAD ESPAÑOLA DE OPTICA SEDO

Francisco Rey García; Eliseo Pérez; Pablo Rodríguez; Álvaro Dosil; María del Carmen Bao Varela; Abraham Antonio Gallas Torreira; Germán Francisco de la Fuente Leis.

Reasons for participation: Review before acceptance

25 Title of the work: GRIN rod materials obtained by Laser Zone Melting

Name of the conference: ICC5: The 5th International Congress on Ceramics

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Beijing, China

Date of event: 17/08/2014

End date: 21/08/2014

Organising entity: Chinese Ceramic Society

Isabel de Francisco García; Ana Isabel Gómez Varela; Francisco Rey García; Vassily Lennikov; Luis Carlos Estepa Millán; María del Carmen Bao Varela; Germán Francisco de la Fuente Leis.

Geographical area: Non EU International

Reasons for participation: Review before acceptance

Type of entity: Associations and Groups

26 Title of the work: Effect of laser treatments in the microstructure and physical properties of Bi-2212 and Gd-123 bulk samples

Name of the conference: ASC14 - Applied Superconductivity Conference

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Charlotte, United States of America

Date of event: 10/08/2014

End date: 15/08/2014

Organising entity: IEEE Council on Superconductivity (IEEE-CSC)

Francisco Rey García; Hyppolite Amaveda; Carlos Laliena; Mario Mora; Luis Alberto Angurel Lambán; Germán Francisco de la Fuente Leis; María del Carmen Bao Varela.

Geographical area: Non EU International

Reasons for participation: Review before acceptance

Type of entity: Associations and Groups

27 Title of the work: Laser treatment of Fe-Al coatings on P92 Steel

Name of the conference: VIII International Congress of ANQUE: Science and Technology of Materials (ANQUE-ICCE-BIOTEC 2014)

Type of event: Conference

Type of participation: Participatory - poster

City of event: Madrid, Community of Madrid, Spain

Date of event: 01/07/2014

End date: 04/07/2014

Organising entity: ANQUE -SEBIOT

Héctor Santos Barahona; Germán Francisco de la Fuente Leis; Francisco Rey García; Ruth Lahoz; M. Gutiérrez del Olmo; Alina Agüero Bruna; Francisco Javier Pérez Trujillo.

Geographical area: European Union

Reasons for participation: Review before acceptance

Type of entity: Associations and Groups

28 Title of the work: The Laser Furnace: A new high temperature processing tool

Name of the conference: VIII International Congress of ANQUE: Science and Technology of Materials (ANQUE-ICCE-BIOTEC 2014)

Type of event: Conference

Geographical area: European Union



Type of participation: Participatory - oral communication

City of event: Madrid, Community of Madrid, Spain

Date of event: 01/07/2014

End date: 04/07/2014

Organising entity: ANQUE - SEBIOT

Francisco Rey García; Isabel de Francisco García; Vassilly Lennikov; Luis Alberto Angurel Lambán; Luis Carlos Estepa Millán; María del Carmen Bao Varela; Germán Francisco de la Fuente Leis.

Reasons for participation: Review before acceptance

Type of entity: Associations and Groups

29 Title of the work: New fabrication method for obtaining optically active GRIN media

Name of the conference: XIII Congreso Nacional de Materiales

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Barcelona,

Date of event: 18/06/2014

End date: 20/06/2014

Organising entity: Universitat de Barcelona

Ana Isabel Gómez Varela; Isabel de Francisco García; Francisco Rey García; Vassilly Lennikov; Luis Carlos Estepa Millán; María del Carmen Bao Varela; Germán Francisco de la Fuente Leis.

Geographical area: National

Reasons for participation: Review before acceptance

Type of entity: University

30 Title of the work: Laser processing of ceramic substrates modified by deposition of metals and oxides

Name of the conference: E-MRS Spring Meeting 2014

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Lille, Nord - Pas-de-Calais, France

Date of event: 27/05/2014

End date: 29/05/2014

Organising entity: European Materials Research Society (E-MRS)

Victor Rico Gavira; Jorge Gil Rostra; Francisco Yubero; Agustín Rodríguez González-Elipse; Ruth Lahoz; Francisco Rey García; Germán Francisco de la Fuente Leis.

Geographical area: European Union

Reasons for participation: Review before acceptance

31 Title of the work: PLD of metallic coatings via a dynamic prism configuration

Name of the conference: E-MRS Spring Meeting 2014

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Lille, Nord - Pas-de-Calais, France

Date of event: 27/05/2014

End date: 29/05/2014

Organising entity: European Materials Research Society (E-MRS)

Ferran Cambronero López; Francisco Rey García; María del Carmen Bao Varela; Luis Carlos Estepa Millán; Ruth Lahoz; Luis Alberto Angurel Lambán; Germán Francisco de la Fuente Leis.

Geographical area: European Union

Reasons for participation: Review before acceptance

Type of entity: Associations and Groups

32 Title of the work: Parabolic-like refractive index profile active GRIN materials by Laser Zone Melting method

Name of the conference: AOP'2014 International Conference on Applications of Optics and Photonics

Type of event: Conference

Type of participation: Participatory - poster

Geographical area: Non EU International

Reasons for participation: Review before acceptance



City of event: Aveiro, Centro (P), Portugal

Date of event: 26/05/2014

End date: 30/05/2014

Organising entity: Sociedade Portuguesa de Ótica e **Type of entity:** Associations and Groups
Fotónica (SPOF)

City organizing entity: Lisboa, Lisboa, Portugal

Ana Isabel Gómez Varela; Isabel de Francisco García; Francisco Rey García; R.A.S. Ferreira; P.S. André;
María del Carmen Bao Varela; María Teresa Flores Arias; Germán Francisco de la Fuente Leis.

33 Title of the work: Pulsed Laser Deposition of Cu/Zn coatings through a mobile prisms set-up
Name of the conference: AOP'2014 International Conference on Applications of Optics and Photonics

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - oral
communication

Reasons for participation: Review before
acceptance

City of event: Aveiro, Centro (P), Portugal

Date of event: 26/05/2014

End date: 30/05/2014

Organising entity: Sociedade Portuguesa de Ótica e **Type of entity:** Associations and Groups
Fotónica (SPOF)

City organizing entity: Lisboa, Lisboa, Portugal

Ferran Cambronero López; Francisco Rey García; María del Carmen Bao Varela; Ruth Lahoz; Luis Alberto
Angurel Lambán; Luis Carlos Estepa Millán; Germán Francisco de la Fuente Leis.

34 Title of the work: Enhancement of critical current density of MgB₂ bulk superconductors via laser irradiation
Name of the conference: ICSM2014 - IV International Conference on Superconductivity and Magnetism

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - poster

Reasons for participation: Review before
acceptance

City of event: Antalya, Turkey

Date of event: 27/04/2014

End date: 02/05/2014

Organising entity: Ankara Üniversitesi

Type of entity: University

City organizing entity: Ankara, Turkey

Ozge Erdem; Francisco Rey García; Ruth Lahoz; Isabel de Francisco García; Luis Alberto Angurel Lambán;
Germán Francisco de la Fuente Leis; Eril Yanmaz.

35 Title of the work: Microstructure Modifications Induced in Bulk Gd-123 and Bi-2212 with Laser Treatments
Name of the conference: ICSM2014 - IV International Conference on Superconductivity and Magnetism

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - invited/keynote
talk

Reasons for participation: Upon invitation

City of event: Ankara, Turkey

Date of event: 27/04/2014

End date: 02/05/2014

Organising entity: Ankara Üniversitesi

Type of entity: University

City organizing entity: Ankara, Turkey

Francisco Rey García; Hyppolite Amavedac; Carlos Laliena; Mario Mora; Luis Alberto Angurel Lambán;
Germán Francisco de la Fuente Leis; María del Carmen Bao Varela.

36 Title of the work: Fabrication of High-density Pitch Adapters by Laser Ablation

Name of the conference: SPIE Photonics Europe 2014

Type of event: Conference

Geographical area: Non EU International



Type of participation: Participatory - oral communication

Corresponding author: No

City of event: Brussels, Belize

Date of event: 14/04/2014

End date: 17/04/2014

Organising entity: SPIE

Type of contribution: Scientific paper

Francisco Rey García; María del Carmen Bao Varela; Eliseo Pérez; Pablo Rodríguez; Abraham Antonio Gallas Torreira; Germán Francisco de la Fuente Leis. 9133, pp. 91330U-1 - 91330U-7.

DOI: 0.1117/12.2051502

Reasons for participation: Review before acceptance

Type of entity: Associations and Groups

37 Title of the work: Metallic coatings obtained by Pulsed Laser Deposition through a dynamic prism system

Name of the conference: SPIE Photonics Europe 2014

Type of event: Conference

Type of participation: Participatory - oral communication

Corresponding author: No

City of event: Brussels, Belgium

Date of event: 14/04/2014

End date: 17/04/2014

Organising entity: SPIE

With external admission assessment committee: Yes

Type of contribution: Scientific paper

Ferran Cambronero López; Francisco Rey García; María del Carmen Bao Varela; Germán Francisco de la Fuente Leis. En: Proceedings of SPIE. 9135, pp. 913510-1 - 913510-7.

DOI: 10.1117/12.2051499

Geographical area: Non EU International

Reasons for participation: Review before acceptance

Type of entity: Associations and Groups

38 Title of the work: Laser synthesis under extreme conditions

Name of the conference: VIII Encuentro Franco-Español de Química y Física del Estado Sólido

Type of event: Conference

Type of participation: Participatory - invited/keynote talk

City of event: Vilarreal, Valencian Community, Spain

Date of event: 02/04/2014

End date: 04/04/2014

Organising entity: Universidad Jaime I

Isabel de Francisco García; Vassily Lennikov; Francisco Rey García; María del Carmen Bao Varela; Luis Alberto Angurel Lambán; Germán Francisco de la Fuente Leis.

Geographical area: European Union

Reasons for participation: Upon invitation

Type of entity: University

39 Title of the work: Changes in Nd:YVO₄ Laser Irradiated MgB₂ Bulk Superconductors

Name of the conference: 7th Asian Conference on Applied Superconductivity and Cryogenics (ACASC)

Type of event: Conference

Type of participation: Participatory - poster

City of event: Cappadocia, Turkey

Date of event: 23/10/2013

End date: 25/10/2013

Organising entity: Center of Excellence for Superconductivity Research (CESUR) - Ankara University

City organizing entity: Ankara, Turkey

Geographical area: Non EU International

Reasons for participation: Review before acceptance

Type of entity: Technological Centre



Francisco Rey García; Ruth Lahoz; Isabel de Francisco García; Luis Alberto Angurel Lambán; Germán Francisco de la Fuente Leis; Eril Yanmaz.

- 40** **Title of the work:** MgB₂ Külçe Süperiletkenlerin Nd:YVO₄ Lazerile Modifikasyonu
Name of the conference: 6th National Superconductivity Symposium
Type of event: Conference **Geographical area:** Non EU International
Type of participation: Participatory - oral communication **Reasons for participation:** Review before acceptance
City of event: Ankara, Turkey
Date of event: 23/09/2013
End date: 25/09/2013
Organising entity: Ankara University **Type of entity:** University
City organizing entity: Ankara, Turkey
Ozge Erdem; Francisco Rey García; Ruth Lahoz; Isabel de Francisco García; Luis Alberto Angurel Lambán; Germán Francisco de la Fuente Leis; Eril Yanmaz.
- 41** **Title of the work:** Photonic glasses doped by Laser Zone Melting
Name of the conference: ECSSC14 - European Conference on Solid State Chemistry XIV
Type of event: Conference **Geographical area:** European Union
Type of participation: 'Participatory - poster **Reasons for participation:** Review before acceptance
City of event: Bordeaux, Aquitaine, France
Date of event: 07/07/2013
End date: 10/07/2013
Organising entity: Institut de Chimie de la matière condensée de Bordeaux (ICMBC-CNRS) **Type of entity:** Technological Centre
City organizing entity: Bordeaux, Aquitaine, France
Francisco Rey García; María del Carmen Bao Varela; Vassilly Lennikov; Isabel de Francisco García; Luis Carlos Estepa Millán; Germán Francisco de la Fuente Leis; Wilfried Assenmacher; Werner Mader.
- 42** **Title of the work:** Fabricación y caracterización de cerámicas superconductoras de Gd₁Ba₂Cu₃O₇-?
Name of the conference: EC-XI: XI Reunión Nacional de Electrocerámica
Type of event: Conference **Geographical area:** National
Type of participation: 'Participatory - poster **Reasons for participation:** Review before acceptance
City of event: Zaragoza, Aragon, Spain
Date of event: 19/06/2013
End date: 21/06/2013
Organising entity: Universidad de Zaragoza **Type of entity:** University
Hypolite Amaveda; Francisco Rey García; Mario Mora; María del Carmen Bao Varela; Luis Alberto Angurel Lambán; Jose Antonio Gómez; Germán Francisco de la Fuente Leis.
- 43** **Title of the work:** Dopado de vidrios mediante Horno Láser para aplicaciones en Fotónica
Name of the conference: LII Congreso Anual de la Sociedad Española de Cerámica y Vidrio (SECV)
Type of event: Conference **Geographical area:** National
Type of participation: Participatory - oral communication **Reasons for participation:** Review before acceptance
City of event: Burgos, Castile and León, Spain
Date of event: 03/10/2012
End date: 06/10/2012
Organising entity: Universidad de Burgos **Type of entity:** University



Francisco Rey García; María del Carmen Bao Varela; Carlos Gómez-Reino Carnota; Vassilly Lennikov; Germán Francisco de la Fuente Leis; Wilfried Assenmacher; Werner Mader.

44 Title of the work: Fabrication and characterisation of waveguides fabricated by Laser Zone Melting

Name of the conference: MSE 2012 - Materials Science and Engineering 2012

Type of event: Conference

Geographical area: European Union

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

City of event: Darmstadt, Darmstadt, Germany

Date of event: 25/09/2012

End date: 27/09/2012

Organising entity: Deutsche Gesellschaft für Materialkunde (DGM)

City organizing entity: Frankfurt am Main, Darmstadt, Germany

Francisco Rey García; María Teresa Flores Arias; María del Carmen Bao Varela; Carlos Gómez-Reino Carnota; Vassilly Lennikov; Germán Francisco de la Fuente Leis; Wilfried Assenmacher; Werner Mader.

45 Title of the work: Fabrication of metal derived waveguides by Laser Ablation Backwriting

Name of the conference: MSE 2012 - Materials Science and Engineering 2012

Type of event: Conference

Geographical area: European Union

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

City of event: Darmstadt, Darmstadt, Germany

Date of event: 25/09/2012

End date: 27/09/2012

Organising entity: Deutsche Gesellschaft für Materialkunde (DGM)

City organizing entity: Frankfurt am Main, Darmstadt, Germany

Francisco Rey García; María Teresa Flores Arias; María del Carmen Bao Varela; Carlos Gómez-Reino Carnota; Ruth Lahoz; Luis Alberto Angurel Lambán; Germán Francisco de la Fuente Leis; Wilfried Assenmacher; Werner Mader.

46 Title of the work: Laser 3D internal machining of polymers

Name of the conference: EOSAM 2012 - European Optical Society annual meeting 2012

Type of event: Conference

Geographical area: European Union

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

City of event: Aberdeen, United Kingdom

Date of event: 25/09/2012

End date: 28/09/2012

Organising entity: European Optical Society

Type of entity: Associations and Groups

Francisco Rey García; María del Carmen Bao Varela; Carlos Gómez-Reino Carnota; Germán Francisco de la Fuente Leis.

47 Title of the work: Caracterización óptica de guías de onda de SiO₂:TiO₂ obtenidas mediante Sol-Gel

Name of the conference: X Reunión Nacional de Óptica 2012

Type of event: Conference

Geographical area: National

Type of participation: 'Participatory - poster

Reasons for participation: Review before acceptance

City of event: Zaragoza, Aragon, Spain

Date of event: 04/09/2012

End date: 07/09/2012

Organising entity: Universidad de Zaragoza

Type of entity: University



Francisco Rey García; María del Carmen Bao Varela; María Teresa Flores Arias; Carlos Gómez-Reino Carnota; Simone Berneschi; Gualtiero Nunzi-Conti; Stefano Pelli; Giancarlo Righini; Germán Francisco de la Fuente Leis.

- 48** **Title of the work:** Microstructure of planar glass substrates modified by Laser Ablation Backwriting of metal targets
Name of the conference: Optocoat 2012 - Recubrimientos y funcionalización superficial de materiales para aplicaciones ópticas
Type of event: Workshop
Type of participation: Participatory - oral communication
City of event: Alicante, Valencian Community, Spain
Date of event: 31/05/2012
End date: 31/05/2012
Organising entity: INGESNET
Type of entity: Business
Francisco Rey García; Carlos Gómez-Reino Carnota; María Teresa Flores Arias; Ruth Lahoz; Germán Francisco de la Fuente Leis; Wilfried Assenmacher; Werner Mader.
- 49** **Title of the work:** Microstructure of soda-lime glass modified by Laser Ablation Backwriting
Name of the conference: E-MRS Spring Meeting 2012
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Estrasburgo, Alsace, France
Date of event: 14/05/2012
End date: 18/05/2012
Organising entity: European Materials Research Society (E-MRS)
Type of entity: Associations and Groups
Francisco Rey García; Carlos Gómez-Reino Carnota; María Teresa Flores Arias; Ruth Lahoz; Luis Alberto Angurel Lambán; Germán Francisco de la Fuente Leis; Wilfried Assenmacher; Werner Mader; Juan Bautista Carda.
- 50** **Title of the work:** 3D-internal Laser beam machining into polymers
Name of the conference: ECIO 2012 - 16th European conference on integrated optics and technical exhibition
Type of event: Conference
Type of participation: Participatory - poster
City of event: Sitges, Catalonia, Spain
Date of event: 18/04/2012
End date: 20/04/2012
Organising entity: Institut de Ciències Fotòniques
Type of entity: Foundation
Francisco Rey García; María del Carmen Bao Varela; Carlos Gómez-Reino Carnota; Germán Francisco de la Fuente Leis.
- 51** **Title of the work:** Microstructure of soda-lime glass modified by Laser Ablation Backwriting
Name of the conference: IV Congresso Luso-Espanhol de Cerâmica e Vidro
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Aveiro, Centro (P), Portugal
Date of event: 16/11/2011



End date: 18/11/2011

Organising entity: Universidade de Aveiro

Type of entity: University

City organizing entity: Aveiro, Centro (P), Portugal

Francisco Rey García; Carlos Gómez-Reino Carnota; María Teresa Flores Arias; Ruth Lahoz; Luis Alberto Angurel Lambán; Germán Francisco de la Fuente Leis; Wilfried Assenmacher; Werner Mader; Juan Bautista Carda.

52 Title of the work: Laser Processing of Ceramics

Name of the conference: China International Conference on High-Performance Ceramics

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - invited/keynote talk

Reasons for participation: Upon invitation

City of event: Xiamen, China

Date of event: 04/11/2011

End date: 07/11/2011

Organising entity: Chinese Ceramics Society

Type of entity: Associations and Groups

Ruth Lahoz; Isabel de Francisco; Luis Alberto Angurel Lambán; Luis Carlos Estepa Millán; Francisco Rey García; María Teresa Flores Arias; María del Carmen Bao Varela; Carlos Gómez-Reino Carnota; Germán Francisco de la Fuente Leis.

53 Title of the work: Laser Surface Treatments on P92 aluminized ferritic steels

Name of the conference: FEAL 2011 - Discussion Meeting on the Development of Innovative Iron Aluminium Alloys

Type of event: Conference

Geographical area: European Union

Type of participation: Participatory - oral communication

Reasons for participation: Review before acceptance

City of event: Lanzarote, Canary Islands, Spain

Date of event: 05/10/2011

End date: 07/10/2011

Organising entity: Universidad Complutense de Madrid

Type of entity: University

Francisco Rey García; María del Carmen Bao Varela; Carlos Gómez-Reino Carnota; Ruth Lahoz; Germán Francisco de la Fuente Leis; Héctor Santos Barahona; Francisco Javier Pérez Trujillo.

54 Title of the work: Characterization of planar waveguides fabricated by multiple Sol-Gel dip-coatings

Name of the conference: 22nd General congress of the international commission for Optics (ICO-22)

Type of event: Conference

Geographical area: Non EU International

Type of participation: Participatory - poster

Reasons for participation: Review before acceptance

City of event: Puebla, Mexico

Date of event: 15/08/2011

End date: 19/08/2011

Organising entity: Centro de Investigaciones en Óptica

Type of entity: Technological Centre

City organizing entity: León, Mexico

With external admission assessment committee: Yes

Type of contribution: Scientific paper

Francisco Rey García; María Teresa Flores Arias; Carlos Gómez-Reino Carnota; Germán Francisco de la Fuente Leis; Wilfried Assenmacher; Werner Mader; Simone Berneschi; Stefano Pelli; Gualtiero Nunzi-Conti; Giancarlo Righini. En: Proceedings of SPIE. 8011. 8011, pp. 80110R-1 - 80110R-1. SPIE,



- 55** **Title of the work:** Structural and optical characterisation of planar waveguides obtained via Sol-Gel
Name of the conference: AOP'2011 International Conference on Applications of Optics and Photonics
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Braga, Norte, Portugal
Date of event: 03/05/2011
End date: 07/05/2011
Organising entity: Universidade do Minho
City organizing entity: Braga, Norte, Portugal
With external admission assessment committee: Yes
Type of contribution: Scientific paper
Francisco Rey García; Carlos Gómez-Reino Carnota; María Teresa Flores Arias; Germán Francisco de la Fuente Leis; Wilfried Assenmacher; Werner Mader. En: Proceedings of SPIE. 8001. 8001, pp. 800116-1 - 800116-1. SPIE,
Geographical area: Non EU International
Reasons for participation: Review before acceptance
Type of entity: University
- 56** **Title of the work:** Laser marking techniques applicable to Cultural Heritage materials identification
Name of the conference: 4th Intensive School on Conservation Science
Type of event: Curso de Verano
Type of participation: 'Participatory - poster
City of event: Teruel, Aragon, Spain
Date of event: 19/07/2010
End date: 31/07/2010
Organising entity: Universidad de Verano de Teruel
City organizing entity: Teruel, Aragon, Spain
Francisco Rey García; María Teresa Flores Arias; Carlos Gómez-Reino Carnota; Ruth Lahoz; Germán Francisco de la Fuente Leis.
Geographical area: European Union
Reasons for participation: Open access
Type of entity: University
- 57** **Title of the work:** Fabricacion de recubrimientos de substratos de vidrio plano mediante láser de CO2
Name of the conference: XLIX Congreso Anual de la Sociedad Española de Cerámica y Vidrio (SECV)
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Linares, Andalusia, Spain
Date of event: 28/10/2009
End date: 30/10/2009
Organising entity: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO
Francisco Rey García; Daniel Nieto García; Carlos Gómez-Reino Carnota; María Teresa Flores Arias; Germán Francisco de la Fuente Leis; Wilfried Assenmacher; Werner Mader.
Geographical area: National
Reasons for participation: Review before acceptance
- 58** **Title of the work:** Interfaces in planar waveguides obtained via Sol-Gel
Name of the conference: ECSSC XII - European Conference on Solid State Chemistry XII
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Münster, Münster, Germany
Date of event: 20/09/2009
End date: 23/09/2009
Organising entity: University of Münster
City organizing entity: Münster, Münster, Germany
Francisco Rey García; Carlos Gómez-Reino Carnota; María Teresa Flores Arias; Germán Francisco de la Fuente Leis; Wilfried Assenmacher; Werner Mader.
Geographical area: European Union
Reasons for participation: Review before acceptance
Type of entity: University



- 59** **Title of the work:** Fabricación de guías de onda mediante tecnología Sol-Gel sobre sustratos de vidrio planos
Name of the conference: IX Reunión Nacional de Óptica
Type of event: Conference **Geographical area:** National
Type of participation: Participatory - oral communication **Reasons for participation:** Review before acceptance
City of event: Ourense,
Date of event: 14/09/2009
End date: 17/09/2009
Organising entity: Universidade de Vigo **Type of entity:** University
Francisco Rey García; Daniel Nieto García; María Teresa Flores Arias; Carlos Gómez-Reino Carnota; Alicia Durán; Yolanda Castro; Germán Francisco de la Fuente Leis.
- 60** **Title of the work:** Fabricación de guías de onda en sustratos de vidrio planos mediante tecnología Sol-Gel
Name of the conference: XLVIII Congreso Anual de la Sociedad Española de Cerámica y Vidrio (SECV)
Type of event: Conference **Geographical area:** National
Type of participation: Participatory - oral communication **Reasons for participation:** Review before acceptance
City of event: Oviedo, Principality of Asturias, Spain
Date of event: 29/10/2008
End date: 31/10/2008
Organising entity: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO
City organizing entity: Madrid,
Francisco Rey García; Daniel Nieto García; Carlos Gómez-Reino Carnota; María Teresa Flores Arias; Germán Francisco de la Fuente Leis; Alicia Durán; Yolanda Castro.
- 61** **Title of the work:** Fabrication and characterisation of glassing engraved waveguides
Name of the conference: V Congreso Franco-Español de Química y Física del Estado Sólido
Type of event: Conference **Geographical area:** European Union
Type of participation: Participatory - oral communication **Reasons for participation:** Review before acceptance
City of event: Clermont-Ferrand, Auvergne, France
Date of event: 02/04/2008
End date: 04/04/2008
Organising entity: Université Blaise Pascal **Type of entity:** University
City organizing entity: Clermont-Ferrand, Auvergne, France
Francisco Rey García; Carlos Gómez-Reino Carnota; María Teresa Flores Arias; Daniel Nieto García; Germán Francisco de la Fuente Leis.
- 62** **Title of the work:** Fabricación de guías de onda en sustratos de vidrio planos
Name of the conference: XLVII Congreso Anual de la Sociedad Española de Cerámica y Vidrio (SECV)
Type of event: Conference **Geographical area:** National
Type of participation: Participatory - oral communication **Reasons for participation:** Review before acceptance
City of event: Toledo, Castile-La Mancha, Spain
Date of event: 24/10/2007
End date: 26/10/2007
Organising entity: ASOCIACION INVESTIGACION Y DESARROLLO INDUSTRIAL DE RECURSOS NATURALES (AITEMIN)



Francisco Rey García; Daniel Nieto García; Carlos Gómez-Reino Carnota; María Teresa Flores Arias; María Victoria Pérez Moreno; María del Carmen Bao Varela; Vassilly Lennikov; Germán Francisco de la Fuente Leis.

- 63** **Title of the work:** Preparation of planar waveguides on planar substrates
Name of the conference: ECSSC XI - European Conference on Solid State Chemistry XI
Type of event: Conference **Geographical area:** European Union
Type of participation: 'Participatory - poster **Reasons for participation:** Review before acceptance
City of event: Caen, Basse-Normandie, France
Date of event: 11/09/2007
End date: 13/09/2007
Organising entity: Université de Caen - Centre National de le Ricerche Scientifique (CNRS) **Type of entity:** University
City organizing entity: Caen, Basse-Normandie, France
Francisco Rey García; Daniel Nieto García; Carlos Gómez-Reino Carnota; María Teresa Flores Arias; María Victoria Pérez Moreno; Vassilly Lennikov; Germán Francisco de la Fuente Leis.
- 64** **Title of the work:** Fabricación de guías mediante el recubrimiento de substratos de vidrio planos con fritas cerámicas
Name of the conference: OPTOEL 2007 - Congreso Nacional de Optoelectrónica
Type of event: Conference **Geographical area:** National
Type of participation: 'Participatory - poster **Reasons for participation:** Review before acceptance
City of event: Bilbao,
Date of event: 11/07/2007
End date: 13/07/2007
Organising entity: SOCIEDAD ESPAÑOLA DE OPTICA SEDO
Francisco Rey García; Daniel Nieto García; Carlos Gómez-Reino Carnota; María Teresa Flores Arias; María Victoria Pérez Moreno; Vassilly Lennikov; Germán Francisco de la Fuente Leis.
- 65** **Title of the work:** Fabrication of planar waveguides via coating of planar glass substrates with ceramic frits
Name of the conference: NEMO's Second General Scientific Networking Meeting
Type of event: Workshop **Geographical area:** European Union
Type of participation: 'Participatory - poster
City of event: Firenze, Toscana, Italy
Date of event: 17/05/2007
End date: 18/05/2007
Organising entity: NEMO (Network of Excellence on Micro-Optics - EU) **Type of entity:** Unión Europea
Francisco Rey García; Daniel Nieto García; Carlos Gómez-Reino Carnota; María Teresa Flores Arias; Antonio Castelo Porta; María Victoria Pérez Moreno; María del Carmen Bao Varela; Vassilly Lennikov; Germán Francisco de la Fuente Leis.



R&D management and participation in scientific committees

Evaluation and revision of R&D projects and articles

- 1 Name of the activity:** Topic Editor
Performed tasks: Editor in technical and scientific journals indexed in JCR (Journal Citation Report)
Entity where activity was carried out: Crystals, MDPI
Type of entity: Scientific Editorial
Geographical area: Non EU International
Start date: 01/02/2021
- 2 Name of the activity:** Evaluator/Reviewer of technical and scientific journals indexed in JCR (Journal Citation Report)
Performed tasks: Evaluation and reviewer for peer-reviewed process of scientific work
Entity where activity was carried out: Royal Society of Chemistry - RSC Advances
Type of entity: Associations and Groups
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 1
Access system: Designated by the corresponding party without competition
Geographical area: Non EU International
Start date: 10/11/2020
- 3 Name of the activity:** Evaluator/Reviewer of technical and scientific journals indexed in JCR (Journal Citation Report)
Performed tasks: Evaluation and reviewer for peer-reviewed process of scientific work
Entity where activity was carried out: Springer Nature - Journal of Materials Science: Materials in Electronics
Type of entity: Associations and Groups
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 2
Access system: Designated by the corresponding party without competition
Geographical area: Non EU International
Start date: 24/06/2020
- 4 Name of the activity:** Evaluator/Reviewer of technical and scientific journals indexed in JCR (Journal Citation Report)
Performed tasks: Evaluation and reviewer for peer-reviewed process of scientific work
Entity where activity was carried out: Royal Society of Chemistry - CrystEngComm
Type of entity: Associations and Groups
Type of activity: Review of articles in scientific or technological journals
Frequency of the activity: 1
Access system: Designated by the corresponding party without competition
Geographical area: Non EU International
Start date: 13/05/2020
- 5 Name of the activity:** Evaluator/Reviewer of technical and scientific journals indexed in JCR (Journal Citation Report)
Performed tasks: Evaluation and reviewer for peer-reviewed process of scientific work
Entity where activity was carried out: Springer Nature - Journal of Materials Science
Type of entity: Associations and Groups



Type of activity: Review of articles in scientific or technological journals

Access system: Designated by the corresponding party without competition

Start date: 12/05/2020

Frequency of the activity: 3

Geographical area: Non EU International

6 Name of the activity: Member of Editorial Board

Performed tasks: Editor - Evaluation of articles in scientific or technological journals

Entity where activity was carried out: Herald (editorial); Journal of Light & Laser: Current Trends

City of entity: Herndon, United States of America

Type of activity: Participation in editorial committees

Access system: Designated by the corresponding party without competition

Start date: 22/01/2020

Geographical area: Non EU International

7 Name of the activity: Evaluator/Reviewer of technical and scientific indexed journals

Performed tasks: Evaluation and reviewer for peer-reviewed process of scientific work

Entity where activity was carried out: Mediterranean Journal of Chemistry

Type of activity: Review of articles in scientific or technological journals

Access system: Designated by the corresponding party without competition

Start date: 22/02/2019

Type of entity: Associations and Groups

Frequency of the activity: 1

Geographical area: Non EU International

8 Name of the activity: Evaluator/Reviewer of technical and scientific journals indexed in JCR (Journal Citation Report)

Performed tasks: Evaluation and reviewer for peer-reviewed process of scientific work

Entity where activity was carried out: Elsevier editorial - Heliyon

Type of activity: Review of articles in scientific or technological journals

Access system: Designated by the corresponding party without competition

Start date: 10/09/2018

Type of entity: Associations and Groups

Frequency of the activity: 1

Geographical area: Non EU International

9 Name of the activity: Evaluator/Reviewer of technical and scientific journals indexed in JCR (Journal Citation Report)

Performed tasks: Evaluation and reviewer for peer-reviewed process of scientific work

Entity where activity was carried out: OSA, Optical Society of America - Optica Materials Express

Type of activity: Review of articles in scientific or technological journals

Access system: Designated by the corresponding party without competition

Start date: 23/05/2017

Frequency of the activity: 1

Geographical area: Non EU International

10 Name of the activity: Evaluator/Reviewer of technical and scientific journals indexed in JCR (Journal Citation Report)

Performed tasks: Evaluation and reviewer for peer-reviewed process of scientific work

Entity where activity was carried out: OSA, Optical Society of America - Applied Optics

Type of activity: Review of articles in scientific or technological journals

Frequency of the activity: 2



Access system: Designated by the corresponding party without competition

Start date: 31/03/2017

Geographical area: Non EU International

Other achievements

Stays in public or private R&D centres

- 1** **Entity:** Universidade de Aveiro **Type of entity:** University
Faculty, institute or centre: i3N & Departamento de Fisica
City of entity: Aveiro, Centro (P), Portugal
Start-End date: 01/11/2015 - 31/10/2018 **Duration:** 3 years
Funding entity: Fundação para a Ciência e a Tecnologia **Type of entity:** Public Research Body
City funding entity: Lisboa, Lisboa, Portugal
Name of programme: Bolsas de Pós-Doutoramento (BPD) 2015
Goals of the stay: Post-doctoral
Provable tasks: 1.- Laser Floating Zone of oxyorthosilicates, garnets and other laser mediums. 2.-Pulsed Laser Ablation in Liquids for gold nanoparticles production
- 2** **Entity:** Consiglio Nazionale delle Ricerche (CNR) **Type of entity:** State agency
Faculty, institute or centre: Istituto di Fisica Applicata "Nello Carrara"
City of entity: Firenze, Toscana, Italy
Start-End date: 01/02/2011 - 01/03/2011 **Duration:** 2 months
Goals of the stay: Doctorate
Provable tasks: Dark m-line spectroscopy
- 3** **Entity:** Universität Bonn **Type of entity:** University
Faculty, institute or centre: Institut für Anorganische Chemie
City of entity: Bonn, Köln, Germany
Start-End date: 01/02/2010 - 27/05/2010 **Duration:** 4 months
Goals of the stay: Doctorate
Provable tasks: Transmission Electron Microscopy
- 4** **Entity:** Universität Bonn **Type of entity:** University
Faculty, institute or centre: Institut für Anorganische Chemie
City of entity: Bonn, Köln, Germany
Start-End date: 02/02/2009 - 31/07/2009 **Duration:** 6 months
Goals of the stay: Doctorate
Provable tasks: Transmission Electron Microscopy
- 5** **Entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Faculty, institute or centre: Instituto de Ciencia de Materiales de Aragón
City of entity: Zaragoza, Aragon, Spain
Start-End date: 19/11/2008 - 19/12/2008 **Duration:** 1 month
Goals of the stay: Doctorate
Provable tasks: Laser Technology



- 6** **Entity:** Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Faculty, institute or centre: Instituto de Cerámica y Vidrio
City of entity: Madrid, Community of Madrid, Spain
Start-End date: 25/02/2008 - 14/05/2008 **Duration:** 2 months - 18 days
Goals of the stay: Doctorate
Provable tasks: Sol-Gel Technology

Obtained grants and scholarships

- 1** **Name of the grant:** Bolsas de Pós-Doutoramento (BPD) 2015
City awarding entity: Aveiro, Centro (P), Portugal
Aims: Post-doctoral
Awarding entity: Fundação para a Ciência e a Tecnologia **Type of entity:** State agency
Conferral date: 01/11/2015 **Duration:** 3 years
End date: 31/10/2018
Entity where activity was carried out: Universidade de Aveiro
Faculty, institute or centre: Departamento de Física
- 2** **Name of the grant:** Programa Nacional de Formación de Personal Investigador (FPI)
Aims: Pre-doctoral
Awarding entity: MINISTERIO DE EDUCACION Y CIENCIA
Conferral date: 02/07/2007 **Duration:** 4 years
End date: 01/07/2011
Entity where activity was carried out: Universidad de Santiago de Compostela
Faculty, institute or centre: Departamento de Física Aplicada

Scientific societies and professional associations

- 1** **Name of the society:** Real Sociedad Española de Química
City affiliation entity: Madrid,
Start date: 08/03/2019
- 2** **Name of the society:** Sociedad Española de Cerámica y Vidrio
City affiliation entity: Madrid, Community of Madrid, Spain
Start date: 2008

Prizes, mentions and distinctions

- Description:** Third Place Student Paper - AOP2011 International Conference on Application of Optics and Photonics
Awarding entity: SPIE - International Society for Optics and Photonics **Type of entity:** Associations and Groups
City awarding entity: Bellingham, United States of America
Conferral date: 06/05/2011



Obtained accreditations/recognitions

- 1** **Description:** Profesor Ayudante Doctor
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** National Entity
City accrediting entity: Madrid, Spain
Date of recognition: 19/05/2021
- 2** **Description:** Profesor Contratado Doctor
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** National entity
City accrediting entity: Madrid, Spain
Date of recognition: 19/05/2021
- 3** **Description:** Profesor de Universidad Privada
Accrediting entity: Agencia Nacional de Evaluación de la Calidad y Acreditación **Type of entity:** National Entity
City accrediting entity: Madrid, Spain
Date of recognition: 19/05/2021
- 4** **Description:** Doctor tittle under Portuguese Education Law
Accrediting entity: Universidade de Aveiro **Type of entity:** University
City accrediting entity: Aveiro, Portugal
Date of recognition: 30/04/2015