



Inocencio Rafael Martín Benenzuela

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Date of document: 23/07/2020

v 1.4.3

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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.

Inocencio R. Martín Benenzuela graduated in Physical Sciences from the University of "La Laguna" (Spain) in 1990. He obtained the Ph.D. in 1996 from the University of La Laguna with the Doctoral Thesis entitled "Energy transfer between 4f ions in fluorindate grasses". He completed postdoctoral stages in 1998 and 1999 at the Claude Bernard Lyon I University (France) and at the "Autonoma" University of Madrid (2000). He obtained the positions of Lecturer in Physics in 2001 and Full Professor in 2018 at the University of La Laguna. In 2002, together with Drs. Víctor Lavín and Ulises Rodríguez formed the "Laser Spectroscopy and High Pressure" research group at University of La Laguna.

His research field is focused on the study of the optical properties of luminescent materials, devoting special interest to materials that can be used as sensors, especially on a micro-nanometric scale. He has published around 211 publications with more than 3800 citations (Web of Science) with $h = 35$.

He has participated as principal investigator or researcher in 27 scientific projects obtained in competitive public calls. The international nature of his projects is reflected with international cooperations and projects (Spain-India), integrated action (Spain-Italy) and in the Cost CM1403 program in Europe.

He has been an evaluator of the Polish National Science Center (2013, 2014, 2015, 2016, 2018 and 2019), of the Latvian Council of Sciences of Latvia (2012 and 2014), of the National and Prospective Agency in Spain and He has been referee of more than 110 articles in more than 23 different Journals.

Respect to institutional positions, He has been Deputy Director of the Department of Physics, Electronics and Fundamental and Experimental Systems (2003-2006) of the University of La Laguna (ULL), Director of Innovation, Transfer and Commercial Relations of the ULL (2007 - 2011), Secretary of the ULL General Research Support Services (www.segai.ull.es, 2007-2011), Secretary of the Institute of Materials and Nanotechnology of the ULL (IMN, 2013-2017) and Director of the Department of Physics of the ULL (2015-2020).

He has been General Coordinator of the Doctorate Program "Physics and Informatics" at the University of La Laguna with Quality Mention during 2005-07 and 2006-08 and Coordinator in 2007-09. This doctoral program involved more than 90 professors from different areas. He has been a full-time professor from 1990 to the present, teaching in the Faculties of Physics, Chemistry and Engineering of the University of La Laguna.



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.

- **Periods of research activity evaluated positively (sexenios)** 4 (1993-1998, 1999-2005, 2006-2011, 2012-2017)
- **Supervised Thesis:** 4 (3 Doctoral Prizes)
- **Total citations:** >3800 citas (Web of Science)
- **Average of citations/year in the last 5 years:** 120 (Web of Science)
- **Number of papers:** 211 (Web of Science)
- **Papers in first quartil (Q1):** > 90 (Web of Science)
- **H index:** 35 (Web of Science)
- **Number of communications in conferences:** 175
- **Supervision as Referee in the following Journals:** ACS Applied Materials & Interfaces, Biosensor and Bioelectronics, Chemical Engineering Journal, Chemical Physics



Letters, Journal of Nanomanufacturing, ISRN Spectroscopy, Journal of the Optical Society of America B, Journal of Alloys and Compounds, Journal of Applied Physics, Journal of Luminescence, Journal of Non-Crystalline Solids, Journal of Physics B: Atom., Mol. and Opt. Physics, Journal of Physical Chemistry, Journal of Rare Earths, Journal of Solid State Chemistry, Materials Chemistry and Physics A, Materials Letters, Materials Research Bulletin, Materials Science and Engineering B, Material Science and Engineering C, Modern Physics Letters B, Physics Letter Optical Materials, Optics Express, Optics and Laser Technology, Optics Letters, Physica B-Condensed Matter, Scientific-Reports-Nature, Sensors & Actuators: B Chemical, Spectrochim. Acta Part A: Molec. and Bio. Spect. , Solid State Communications, Solid Sate Sciences, Vibrational Spectroscopy and Thin solid Films.



Inocencio Rafael Martín Benenzuela

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DNI: **42089372Q**
ORCID: **0000-0001-5446-2612**
ScopusID: **7401825485**
ResearcherID: **D-6866-2013**
Date of birth: **16/02/1967**
Gender: **Male**
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Email: **imartin@ull.es**
Personal web page: **<http://imartin.webs.ull.es/>**

Current professional situation

Employing entity: Universidad de La Laguna **Type of entity:** University
Department: Física, Facultad de Ciencias
Professional category: Full Professor (Catedrático de Universidad)
City employing entity: San Cristóbal de La Laguna, Canary Islands, Spain
Email: imartin@ull.es
Start date: 22/09/2018
Dedication regime: Full time
Primary (UNESCO code): 220921 - Spectroscopy; 221116 - Luminescence
Secondary (UNESCO code): 221115 - Lattice mechanics
Identify key words: Spectroscopy

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad de La Laguna	Lecturer (Profesor Titular de Universidad)	24/08/2001
2	Universidad de La Laguna	Assistant Professor (Profesor Asociado)	08/10/1990

1 **Employing entity:** Universidad de La Laguna
Professional category: Lecturer (Profesor Titular de Universidad)
Start-End date: 24/08/2001 - 21/09/2018

2 **Employing entity:** Universidad de La Laguna
Professional category: Assistant Professor (Profesor Asociado)
Start-End date: 08/10/1990 - 23/08/2001



Education

University education

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

University degree: Higher degree

Name of qualification: Graduate in Physics (Fundamental Physics)

Degree awarding entity: Universidad de La Laguna **Type of entity:** University

Date of qualification: 30/07/1990

Doctorates

Doctorate programme: Doctoral Program in Fundamental and Applied Physics

Degree awarding entity: Universidad de La Laguna **Type of entity:** University

Date of degree: 30/10/1996

Thesis director: Vicente D. Rodríguez Armas

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English		C1	C1	C1	C1

Teaching experience

Experience supervising doctoral thesis and/or final year projects

- 1** **Project title:** Study and optical characterization of resonant cavities with luminescent techniques (Estudio y caracterización óptica de cavidades resonantes con técnicas luminiscentes). In course.

Type of project: Doctoral thesis

Co-director of thesis: Drs. F. Lahoz y I. R. Martín

Entity: Universidad de La Laguna

Type of entity: University

Student: Dr. Kevin Soler Carracedo

Date of reading: 2020

- 2** **Project title:** Rare earth doped glass micro resonators for optical applications (Micro resonadores de vidrios dopados con tierras raras para aplicaciones ópticas)

Type of project: Doctoral thesis

Co-director of thesis: Drs. I. R. Martín y Nestor Capuj Rodríguez

Entity: Universidad de La Laguna

Type of entity: University

Student: Dr. Leopoldo Luis Martín Rodríguez

Obtained qualification: Cum laude (Premio Extraordinario de Doctorado)



Date of reading: 30/07/2013

- 3** **Project title:** Controlled obtaining of nanocrystals in vitreous matrices by laser heating (Obtención controlada de nanocristales en matrices vítreas mediante calentamiento con luz láser)
Type of project: Doctoral thesis
Co-director of thesis: I. R. Martín
Entity: Universidad de La Laguna **Type of entity:** University
Student: Sara González Pérez
Obtained qualification: Cum laude (Premio Extraordinario de Doctorado)
Date of reading: 23/09/2011
- 4** **Project title:** Obtaining and characterizing SBN nanocrystals for optical applications (Obtención y caracterización de nanocristales de SBN para aplicaciones ópticas)..
Type of project: Doctoral thesis
Co-director of thesis: Drs. I. R. Martín y Nestor Capuj Rodríguez
Entity: Universidad de La Laguna **Type of entity:** University
Student: D^a. Patricia Haro González
Obtained qualification: Cum laude (Premio Extraordinario de Doctorado)
Date of reading: 19/05/2011
Quality recognition: Yes
- 5** **Project title:** Luminescent ion spectroscopy in glass ceramic materials for laser applications (Espectroscopía de iones luminiscentes en materiales vitrocerámicos para aplicaciones láseres).
Type of project: Doctoral thesis
Co-director of thesis: Drs. V. D. Rodríguez, I. R. Martín y V. Lavín
Entity: Universidad de La Laguna **Type of entity:** University
Student: Jorge Méndez Ramos
Obtained qualification: Cum Laude
Date of reading: 11/07/2003
- 6** **Project title:** Study of Eu³⁺ and Er³⁺ ions in glass-ceramic materials for optical devices (Estudio de los iones Eu³⁺ y Er³⁺ en materiales vitrocerámicos para dispositivos ópticos)
Type of project: Minor thesis
Co-director of thesis: Dr. V. D. Rodríguez y I. R. Martín
Entity: Universidad de La Laguna **Type of entity:** University
Student: Jorge Mendez Ramos
Obtained qualification: Sobresaliente
Date of reading: 26/10/2000

Other activities/achievements not included above

Description of the activity: General Coordinator of the Doctoral Program "Physics and Informatics" of the University of Laguna with Quality Mention (2005-07 y 2006-08) and Coordinator 2007-09.



Scientific and technological experience

Research and development groups/teams

- 1 Name of the group:** Institute of Materials and Nanotechnology
Standardised code: IMN
Affiliation entity: Universidad de La Laguna
Start date: 2010
- 2 Name of the group:** Malta Consolider Team
Aims of the group: High Pressure Research
Affiliation entity: Spanish Research Centers
- 3 Name of the group:** Laser Spectroscopy and High Pressure Group
Aims of the group: Rare Earths, Optical Properties (Absorption and Luminescence), Extreme Conditions (High Pressure and Temperature)
Name of principal investigator: Inocencio R. Martin **Number of members in the group:** 11
Benenzuela
City of group: San Cristóbal de La Laguna, Canary Islands, Spain
Affiliation entity: Universidad de La Laguna **Type of entity:** University
Number of directed thesis: 6 **Number of directed postdoc:** 7

Scientific or technological activities

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

- 1 Name of the project:** HIGH RESOLUTION SPECTROFLUORIMETER (SPECTRAL AND TEMPORARY) FOR OPTICAL CHARACTERIZATION OF MATERIALS (ESPECTROFLUORÍMETRO DE ALTA RESOLUCIÓN ESPECTRAL Y TEMPORAL PARA CARACTERIZACIÓN ÓPTICA DE MATERIALES)
Type of project: Research and development, including transfer
Entity where project took place: Universidad de La Laguna
Name principal investigator (PI, Co-PI....): I. R. Martin (IP)
Nº of researchers: 5
Funding entity or bodies:
Ministerio de Economía, Industria y Competitividad
Code according to the funding entity: EQC2018-004041-P
Start-End date: 11/10/2018 - 30/12/2020
Total amount: 149.075 €
- 2 Name of the project:** CHARACTERIZATION OF OXIDE AND FLUORIDE NANO-PEROVSKITES DOPED WITH LUMINESCENT IONS UNDER EXTREME CONDITIONS; APPLICATION IN PHOTONIC SYSTEMS (CARACTERIZACIÓN DE NANO-PEROVSKITAS DE ÓXIDOS Y FLUORUROS DOPADOS CON IONES LUMINESCENTES EN CONDICIONES EXTREMAS; APLICACIÓN EN SISTEMAS FOTÓNICOS)
Type of project: Research and development, including transfer
Entity where project took place: Universidad de La Laguna
Name principal investigator (PI, Co-PI....): I. R. Martin (IP) y U. R. Rodríguez-Mendoza (Co-IP)



Nº of researchers: 5

Funding entity or bodies:

Ministerio de Economía, Industria y Competitividad

Code according to the funding entity: MAT2016-75586-C4-4-P

Start-End date: 30/12/2016 - 30/12/2020

Total amount: 125.000 €

3 Name of the project: HIGH PRESSURE MATTER. MALTA CONSOLIDER TEAM

Name principal investigator (PI, Co-PI....): Valentín García Baonza

Nº of researchers: 72

Funding entity or bodies:

REDES DE EXCELENCIA. MINECO

Code according to the funding entity: MAT2015-71070-REDC

Start-End date: 01/12/2015 - 30/11/2017

Total amount: 51.500 €

4 Name of the project: NANO-GRANATES DOPED WITH RARE EARTH IONS UNDER EXTREME CONDITIONS FOR PHOTONIC AND SENSOR APPLICATIONS (NANO-GRANATES DOPADOS CON IONES DE TIERRAS RARAS BAJO CONDICIONES EXTREMAS PARA APLICACIONES EN FOTONICA Y SENSORES)

Type of project: Research and development, including transfer

Entity where project took place: Universidad de La Laguna

Name principal investigator (PI, Co-PI....): V. Lavín

Nº of researchers: 6

Funding entity or bodies:

Ministerio de Economía y Competitividad

Code according to the funding entity: MAT2013-46649-C4-4-P

Start-End date: 01/01/2014 - 30/10/2017

Total amount: 138.285,71 €

5 Name of the project: Luminescent Materials for Applications in Solar Photovoltaic Technology (Materiales Luminescentes para aplicaciones en Tecnología Solar Fotovoltaica)

Entity where project took place: Universidad de La Laguna

Name principal investigator (PI, Co-PI....): Ulises R. Rodriguez Mendoza

Nº of researchers: 6

Funding entity or bodies:

Fundación Cajacanarias

Code according to the funding entity: 1808231404

Start-End date: 01/01/2014 - 31/12/2015

Total amount: 17.820 €

6 Name of the project: Development of rare earth-doped nanocrystalline materials for applications in optical sensors and photonic devices.

Degree of contribution: Researcher

Entity where project took place: Universidad de La Laguna

Name principal investigator (PI, Co-PI....): Victor Lavin della Ventura

Nº of researchers: 4

Funding entity or bodies:

Ministerio de Educación y Ciencia. Proyecto Internacional Bilateral en Nanotecnología con India



Code according to the funding entity: PRI-PIBIN-2011-1153

Start-End date: 01/01/2012 - 01/01/2015

Total amount: 92.800 €

- 7** **Name of the project:** Synthesis and characterization of materials with luminescent ions under extreme pressure and temperature conditions (Síntesis y caracterización de materiales con iones luminescentes bajo condiciones extremas de presión y temperatura).

Degree of contribution: Researcher

Entity where project took place: Universidad de La Laguna **Type of entity:** Body, others

Name principal investigator (PI, Co-PI....): Victor Lavin della Ventura

Nº of researchers: 14

Funding entity or bodies:

Ministerio de Ciencia e Innovación

Type of entity: Body, others

Code according to the funding entity: MAT2010-21270-C04-02

Start-End date: 01/01/2011 - 31/12/2014

Total amount: 217.800 €

- 8** **Name of the project:** HIGH PRESSURE MATTER (Materia a alta presión, MALTA)

Degree of contribution: Researcher

Entity where project took place: Consolider con centros españoles

Name principal investigator (PI, Co-PI....): Valentín García Baonza; Victor Lavín (coordinador Univ La Laguna)

Nº of researchers: 72

Funding entity or bodies:

Ministerio de Educación y Ciencia

Code according to the funding entity: Consolider CSD2007-00045

Start-End date: 01/10/2007 - 31/05/2014

Total amount: 5.200.000 €

- 9** **Name of the project:** Sistema para medidas de reflectividad y absorción óptica en función de la temperatura.

Degree of contribution: Researcher

Entity where project took place: Universidad de La Laguna

Name principal investigator (PI, Co-PI....): Fernando Lahoz

Nº of researchers: 5

Funding entity or bodies:

Ministerio Ciencia e Innovación. Convocatoria de Infraestructura Científico-Tecnológica 2008-2011 (Equipamiento Científico-Tecnológico).

Code according to the funding entity: UNLL10-3E-724

Start-End date: 01/05/2012 - 31/12/2013

Total amount: 87.882,9 €

- 10** **Name of the project:** Ultra-intense, ultra-fast, wide-tuning laser system for optoelectronics and photonics applications (Sistema de láseres ultraintensos, ultrarrápidos y de sintonización ancha para aplicaciones en optoelectrónica y fotónica)

Degree of contribution: Researcher

Entity where project took place: Universidad de La Laguna **Type of entity:** Body, others

Name principal investigator (PI, Co-PI....): Victor Lavin della Ventura



Nº of researchers: 5

Funding entity or bodies:

Ministerio de Ciencia e Innovación

Type of entity: Body, others

Code according to the funding entity: 1802260911

Start-End date: 01/01/2008 - 01/01/2012

Total amount: 197.435 €

- 11 Name of the project:** Nanocrystalline materials doped with luminiscent ions under extreme conditions of pressure and temperature for photonic applications (Materiales nanocristalinos dopados con iones luminiscentes bajo condiciones extremas de presión y temperatura para aplicaciones fotónicas)

Degree of contribution: Researcher

Entity where project took place: Universidad de La Laguna

Name principal investigator (PI, Co-PI....): Victor Lavin della Ventura

Nº of researchers: 9

Funding entity or bodies:

Ministerio de Educación y Ciencia

Code according to the funding entity: MAT2007-65990-C03-02

Start-End date: 01/10/2007 - 01/10/2010

Total amount: 260.000 €

- 12 Name of the project:** Equipamiento e infraestructura científico-tecnológico de las Universidades Canarias. DETECTOR TIPO CAMARA CCD RETROILUMINADA REFRIGERADA

Degree of contribution: Researcher

Entity where project took place: Universidad de La Laguna

Name principal investigator (PI, Co-PI....): Ulises R. Rodríguez Mendoza

Nº of researchers: 4

Funding entity or bodies:

Agencia Canaria de Investigación, Innovación y Sociedad de la Información

Code according to the funding entity: EQU2007/109

Start-End date: 21/12/2007 - 21/12/2008

Total amount: 16.033,68 €

- 13 Name of the project:** High pressure study of nanocrystalline materials doped with luminescent ions for optical applications (Estudio a altas presiones de materiales nanocristalinos dopados con iones luminiscentes para aplicaciones ópticas).

Degree of contribution: Researcher

Entity where project took place: Universidad de La Laguna

Name principal investigator (PI, Co-PI....): Martín, I. R.

Nº of researchers: 5

Nª people/year: 5

Funding entity or bodies:

Ministerio de Ciencia y Tecnología.

Code according to the funding entity: MAT 2004-6868- C02-01

Start-End date: 01/01/2004 - 01/06/2008

Total amount: 149.520 €

- 14 Name of the project:** Equipamiento e infraestructura científico-tecnológica de las Universidades Canarias. Sistema láser sintonizable basado en un oscilador paramétrico óptico (OPO).

Degree of contribution: Researcher

Entity where project took place: Universidad de La Laguna

Name principal investigator (PI, Co-PI....): Victor Lavin della Ventura



Nº of researchers: 16

Funding entity or bodies:

Consejería de Educación, Cultura y Deportes. Gobierno de Canarias

Code according to the funding entity: EQU2006/019

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

Total amount: 33.750 €

15 Name of the project: Fabricación y caracterización de nanomateriales para filtros y Sensores Ópticos.

Degree of contribution: Researcher

Entity where project took place: Universidad de La Laguna

Name principal investigator (PI, Co-PI...): Fernando Lahoz Zamarro

Nº of researchers: 4

Funding entity or bodies:

Consejería de Educación, Cultura y Deportes. Gobierno de Canarias

Code according to the funding entity: PI042004/018

Start-End date: 01/01/2005 - 31/12/2007

Total amount: 23.000 €

16 Name of the project: Estudio de Materiales nanocristalinos para aplicaciones ópticas.

Degree of contribution: Researcher

Entity where project took place: Universidad de La Laguna

Name principal investigator (PI, Co-PI...): Martín, I.R.

Nº of researchers: 6

Funding entity or bodies:

Consejería de Educación, Cultura y Deportes. Gobierno de Canarias

Code according to the funding entity: GC 2005/09 ULL

Start-End date: 01/05/2006 - 01/05/2007

Total amount: 11.582 €

17 Name of the project: Ayuda para el mantenimiento de grupo de investigación consolidados. Universidad de la Laguna 2006

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

Name principal investigator (PI, Co-PI...): I. R. Martín

Nº of researchers: 5

Funding entity or bodies:

Universidad de La Laguna

Type of entity: University

Start-End date: 01/05/2006 - 31/12/2006

Total amount: 2.000 €

18 Name of the project: Equipamiento e infraestructura científico-tecnológica de las Universidades Canarias.

Criostato de ciclo cerrado de helio.

Degree of contribution: Researcher

Entity where project took place: Universidad de La Laguna

Name principal investigator (PI, Co-PI...): Ulises R. Rodríguez Mendoza

Nº of researchers: 5

Funding entity or bodies:

Consejería de Educación, Cultura y Deportes. Gobierno de Canarias

Code according to the funding entity: EQU2005/046



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

Total amount: 13.034 €

19 Name of the project: Ayuda para el mantenimiento de grupo de investigación consolidados. Universidad de la Laguna 2005

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

Name principal investigator (PI, Co-PI....): I. R. Martín

Nº of researchers: 5

Funding entity or bodies:

Universidad de La Laguna

Type of entity: University

Start-End date: 01/05/2005 - 31/12/2005

Total amount: 6.000 €

20 Name of the project: Light emission from nano-structures (Acción Integrada con la Universidad de Trento)

Entity where project took place: Universidad de La Laguna

Name principal investigator (PI, Co-PI....): Nestor Capuj

Nº of researchers: 3

Funding entity or bodies:

Ministerio de Ciencia y Tecnología

Code according to the funding entity: HI2003-0180

Start-End date: 01/01/2004 - 01/12/2005

Total amount: 10.608 €

21 Name of the project: Caracterización óptica a alta presión de nuevos materiales vitrocerámicos nanocristalinos dopados con iones luminiscentes

Degree of contribution: Researcher

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

Name principal investigator (PI, Co-PI....): Fernando Lahoz Zamarro

Nº of researchers: 5

Funding entity or bodies:

Universidad de La Laguna

Type of entity: University

City funding entity: San Cristóbal de La Laguna, Canary Islands, Spain

Code according to the funding entity: -

Start-End date: 01/01/2004 - 31/12/2004

Total amount: 8.600 €

22 Name of the project: Luminescent ion spectroscopy in solids and diatomic molecules in dense fluids (Espectroscopía de iones luminiscentes en sólidos y de moléculas diatómicas en fluidos densos)

Degree of contribution: Researcher

Entity where project took place: Universidad de La Laguna

Name principal investigator (PI, Co-PI....): Vicente Daniel Rodríguez

Nº of researchers: 8

Funding entity or bodies:

Ministerio de Ciencia y Tecnología. Programa Nacional de Materiales

Code according to the funding entity: MAT2001-3363

Start-End date: 01/01/2001 - 01/01/2004

Total amount: 96.763 €



- 23** **Name of the project:** Caracterización Óptica de Nuevos Materiales Vitrocerámicos Transparentes. Aplicación en Conversores de Infrarrojo a Visible
Degree of contribution: Researcher
Entity where project took place: Universidad de La Laguna
Name principal investigator (PI, Co-PI....): Vicente Daniel Rodríguez
Nº of researchers: 4
Funding entity or bodies:
Consejería de Educación, Cultura y Deportes.Comunidad Autónoma de Canarias
Code according to the funding entity: PI 2001/048
Start-End date: 01/08/2001 - 01/08/2003
Total amount: 17.670 €
- 24** **Name of the project:** Materiales Ópticos dopados con iones ópticamente activos. Obtención y caracterización espectroscópica
Entity where project took place: Universidad de La Laguna **Type of entity:** Body, others
Name principal investigator (PI, Co-PI....): Vicente D. Rodríguez
Nº of researchers: 4
Funding entity or bodies:
Comisión Interministerial de Ciencia y Tecnología **Type of entity:** Body, others
Code according to the funding entity: PB 98-0437
Start-End date: 01/12/1999 - 01/12/2001
Total amount: 43.573 €
- 25** **Name of the project:** Obtención y Caracterización Espectroscópica de vidrios para Dispositivos Ópticos
Degree of contribution: Researcher
Entity where project took place: Universidad de La Laguna
Name principal investigator (PI, Co-PI....): Vicente D. Rodríguez
Nº of researchers: 4
Funding entity or bodies:
Consejería de Educación, Cultura y Deportes del Gobierno de Canarias
Code according to the funding entity: PI 1999/100
Start-End date: 01/09/1999 - 01/09/2001
Total amount: 13.523 €
- 26** **Name of the project:** Entorno Local de Iones Ópticamente Activos en Materiales para Dispositivos Ópticos
Degree of contribution: Researcher
Entity where project took place: Universidad de La Laguna
Name principal investigator (PI, Co-PI....): Vicente D. Rodríguez
Nº of researchers: 4
Funding entity or bodies:
Consejería de Educación, Cultura y Deportes del Gobierno de Canarias
Code according to the funding entity: PI 1997/068
Start-End date: 01/11/1997 - 01/11/1999
Total amount: 17.429 €



- 27** **Name of the project:** Obtención y Estudio de Materiales para Láseres Compactos en el Visible
Degree of contribution: Researcher
Entity where project took place: Universidad de La Laguna
Name principal investigator (PI, Co-PI....): Vicente D. Rodríguez
Nº of researchers: 4
Funding entity or bodies:
Consejería de Educación, Cultura y Deportes del Gobierno de Canarias
Code according to the funding entity: PI 93 /100
Start-End date: 01/01/1995 - 31/12/1996
Total amount: 10.818 €
- 28** **Name of the project:** Propiedades Ópticas de Vidrios Luminescentes: Utilización en Concentradores Solares.
Degree of contribution: Researcher
Entity where project took place: Universidad de La Laguna
Name principal investigator (PI, Co-PI....): Vicente D. Rodríguez
Nº of researchers: 4
Funding entity or bodies:
Consejería de Educación, Cultura y Deportes del Gobierno de Canarias
Code according to the funding entity: PI 92/090
Start-End date: 01/01/1994 - 31/12/1995
Total amount: 7.212 €

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

- 1** **Name of the project:** Contract for the development of a functional prototype of a dermoscopic device that can be attached to smartphones
Type of project: Precompetitive development
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): I. R. Martín (IP); Leopoldo Luis Martín Rodríguez; Susana Ríos Rodríguez; Kevin Soler Carracedo; David Amador Negrín; Delfín Darías Delgado
Nº of researchers: 6
Start date: 05/06/2019 **Duration:** 5 years
Total amount: 3.000 €
- 2** **Name of the project:** Contract for the performance of scientific and technical work between the company ARPIVAL S.A. AND THE UNIVERSITY OF LA LAGUNA FOR THE DEVELOPMENT OF THE STUDY OF "MEASUREMENTS OF QUANTIC EFFICIENCIES OF EMISSION IN MATERIALS OF TECHNOLOGICAL INTEREST"
Type of project: Research and development, including transfer
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): I. R. Martín (IP); V. Lavín; U. Rodríguez-Mendoza; J. González-Platas
Nº of researchers: 4
Start date: 28/03/2019 **Duration:** 5 years
Total amount: 8.000 €
- 3** **Name of the project:** Reflectivity and Absorption measurements in different Materials
Type of project: Basic research (including archaeological digs, etc)
Degree of contribution: Coordinator of total project, network or consortium



Name principal investigator (PI, Co-PI....): I. R. Martín (IP); U. R. Rodríguez-Mendoza; V. Lavín; F. Lahoz
Nº of researchers: 4
Participating entity/entities: LASING, S.A.; Universidad de La Laguna
Start date: 17/10/2013 **Duration:** 5 years
Total amount: 17.000 €

- 4 Name of the project:** Development of a multiparameter sensor based on the simultaneous measurements of optical and electrical responses
Type of project: Basic research (including archaeological digs, etc)
Degree of contribution: Coordinator of total project, network or consortium
Name principal investigator (PI, Co-PI....): I. R. Martín (IP)
Nº of researchers: 3
Participating entity/entities: Consejería de Industria, Comercio y Nuevas Tecnologías; GAP RURAL S.L.; Universidad de La Laguna
Code according to the funding entity: IDT-TF-06/068
Start date: 01/01/2006 **Duration:** 1 year
Total amount: 20.987 €

Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** K. Soler-Carracedo; I. R. Martín; M. Runowski; L. L. Martín; F. Lahoz; A. D. Lozano-Gorrín; F. Paz-Buclatin. Luminescent Nd³⁺-Based Microresonators Working as Optical Vacuum Sensors. *Advanced Optical Materials*. pp. 2000678-1 - 2000678-9. Science Edition - OPTICS15/07/2020.
DOI: 10.1002/adom.202000678
Type of production: Scientific paper
Impact source: ISI **Category:** Science Edition - OPTICS
Impact index in year of publication: 8.286 **Journal in the top 25%:** Yes
Position of publication: 6 **No. of journals in the cat.:** 97
- 2** A. Tyminski; E. Miechowicz; I. R. Martín; T. Gryzb. Ultraviolet and Near-Infrared Excitable LaPO₄:Yb³⁺/Tm³⁺/Ln³⁺ (Ln = Eu, Tb) Nanoparticles for Luminescent Fibers and Optical Thermometers. *ACS Applied Nano materials*. (En prensa), *Materials Science: General Materials Science*05/02/2020.
Type of production: Scientific paper
Impact source: SCOPUS **Category:** Materials Science: General Materials Science
Impact index in year of publication: 2.5 **Journal in the top 25%:** No
Position of publication: 229 **No. of journals in the cat.:** 451
- 3** M. Runowski; S. Goderski; T. Gryzb; S. Lys; I. R. Martín. Sr₂LuF₇:Yb³⁺--Ho³⁺--Er³⁺ Upconverting Nanoparticles as Luminescent Thermometers in the First, Second, and Third 3 Biological Windows. *ACS Applied Nano Materials*. (En prensa), 04/02/2020.
Type of production: Scientific paper



- 4** A. Tyminski; I. R. Martín; T. Gryzb. Upconversion in Detail: Multicolor Emission of Yb/Er/Tm-Doped Nanoparticles under 800, 975, 1208, and 1532 nm Excitation Wavelengths. Particle and Particle System Characterization. pp. 2000068-1 - 2000068-9. CHEMISTRY, PHYSICAL03/02/2020.
DOI: 10.1002/ppsc.202000068
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3.099
Position of publication: 75
Category: CHEMISTRY, PHYSICAL
Journal in the top 25%: No
No. of journals in the cat.: 159
- 5** P. Babu; I. R. Martín; V. Lavín; U. R. Rodríguez-Mendoza; H. Jin Seo; K. Venkata Krishanaianh; V. Venkatramu. Quantum cutting and near-infrared emissions in Ho³⁺/Yb³⁺ codoped transparent glass-ceramics. Journal of Luminescence. (En prensa), Optics02/02/2020.
DOI: 10.1016/j.jlumin.2020.117424
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3.28
Position of publication: 21
Category: Optics
Journal in the top 25%: Yes
No. of journals in the cat.: 97
- 6** D. Espinoza; N. L. Allan; R. Castillo; S. Conejeros; I. Brito; I. R. Martín; P. Alemany; J. Llanos. Energy transfer, structural and luminescent properties of the color tunable phosphor Y₂WO₆:Sm³⁺. Journal of Alloys and Compounds. 835, pp. 155381-1 - 155381-12. METALLURGY & METALLURGICAL ENGINEERING01/02/2020.
DOI: 10.1016/j.jallcom.2020.155381
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 4.65
Position of publication: 8
Category: METALLURGY & METALLURGICAL ENGINEERING
Journal in the top 25%: Yes
No. of journals in the cat.: 79
- 7** M. Runowski; P. Wozny; S. Lis; V. Lavín; I. R. Martín. Optical Vacuum Sensor Based on Lanthanide Upconversion—Luminescence Thermometry as a Tool for Ultralow Pressure Sensing. ADVANCED MATERIALS TECHNOLOGIES. 5, pp. 1901091-1 - 1901091-8. MATERIALS SCIENCE, MULTIDISCIPLINARY01/01/2020.
DOI: 10.1002/admt.201901091
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 5.969
Position of publication: 62
Category: MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 314
- 8** F. Paz-Buclatin; S. Ríos; I. R. Martín; L. L. Martín. Fluorescence intensity ratio and whispering gallery mode techniques sensors: comparative study. Optical materials express. 9, pp. 4126 - 4137. Science Edition - OPTICS23/09/2019.
DOI: 10.1364/OME.9.004126
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3.064
Position of publication: 24
Category: Science Edition - OPTICS
Journal in the top 25%: Yes
No. of journals in the cat.: 97



- 9** F. Paz-Buclatin; F. Rivera-Lopez; O. González; I. R. Martín; L. L. Martín; D. J. Jovanovic. GdVO₄:Er³⁺/Yb³⁺ nanocrystalline powder as fluorescence temperature sensor. Application to monitor the temperature of an electrical component. *Sensors and Actuators A: Physical*. 299, pp. 111628-1 - 111628-7. Science Edition - INSTRUMENTS & INSTRUMENTATION23/08/2019.
DOI: 10.1016/j.sna.2019.111628
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2.904
Position of publication: 19
Category: Science Edition - INSTRUMENTS & INSTRUMENTATION
Journal in the top 25%: No
No. of journals in the cat.: 64
- 10** T. J. Salami; S. H. Imanieh; J. G. Lawrence; I. R. Martín. Amorphous glass-perovskite composite as solid electrolyte for lithium-ion battery. *Materials Letters*. 254, pp. 294 - 296. Science Edition - PHYSICS, APPLIED23/07/2019.
DOI: 10.1016/j.matlet.2019.07.084
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3.204
Position of publication: 43
Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: No
No. of journals in the cat.: 154
- 11** A. Souamti; M. Kahlaoui; I. R. Martín; A. D. Lozano-Gorrín; E. Lalla; D. B. Hassen Chehimi. Synthesis, luminescence, and electrical properties of Na₆Mg(SO₄)₄:xEu vanthoffite ceramics as electrode materials for sodium ion batteries. *MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS*. 247, pp. 114384-1 - 114384-9. Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY22/07/2019.
DOI: 10.1016/j.mseb.2019.114384
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 4.706
Position of publication: 78
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 314
- 12** M. Runowski; P. Wozni; I. R. Martín; V. Lavín; S. Lis. Praseodymium doped YF₃:Pr³⁺ nanoparticles as optical thermometer based on luminescence intensity ratio (LIR) – Studies in visible and NIR range. *Journal of Luminescence*. 214, pp. 116571-1 - 116571-6. Science Edition - OPTICS22/06/2019.
DOI: 10.1016/j.jlumin.2019.116571
Type of production: Scientific paper
Impact source: SCOPUS
Impact index in year of publication: 3.28
Position of publication: 21
Category: Science Edition - OPTICS
Journal in the top 25%: Yes
No. of journals in the cat.: 97
- 13** M. Vega; I. R. Martín; J. Llanos. Near-infrared to visible upconversion and second harmonic generation in BaTiO₃:Ho³⁺ and BaTiO₃:Ho³⁺/Yb³⁺ phosphors. *Journal of Alloys and Compounds*. 806, pp. 1146 - 1152. *METALLURGY & METALLURGICAL ENGINEERING*11/02/2019.
DOI: 10.1016/j.jallcom.2019.07.311
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 4.65
Position of publication: 8
Category: METALLURGY & METALLURGICAL ENGINEERING
Journal in the top 25%: Yes
No. of journals in the cat.: 79

- 14** C. S. Dwaraka Viswanath; P. Babu; I. R. Martín; V. Venkatramu; V. Lavín; C. K. Jayasankar. Near-infrared and upconversion luminescence of Tm³⁺ and Tm³⁺/Yb³⁺-doped oxyfluorosilicate glasses. *Journal of Non-Crystalline Solids*. 507, pp. 1 - 10. Science Edition - MATERIALS SCIENCE, CERAMICS11/01/2019.
DOI: 10.1016/j.jnoncrysol.2018.12.009
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2.929
Position of publication: 4
Category: Science Edition - MATERIALS SCIENCE, CERAMICS
Journal in the top 25%: Yes
No. of journals in the cat.: 28
- 15** M. Runowski; I. R. Martín; V. N. Sigaev; V. I. Savinkov; G. Yu Shakhgildyan; S. Lis. Luminescent-plasmonic core-shell microspheres, doped with Nd³⁺ and modified with Au nanoparticles, exhibiting whispering gallery modes and SERS activity. *Journal of Rare Earths*. 37, pp. 1152 - 1156. Science Edition - CHEMISTRY, APPLIED10/01/2019.
DOI: <https://doi.org/10.1016/j.jre.2018.10.022>
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3.104
Position of publication: 20
Category: Science Edition - CHEMISTRY, APPLIED
Journal in the top 25%: No
No. of journals in the cat.: 71
- 16** K. Soler-Carracedo; A. Ruiz; I. R. Martín; F. Lahoz. Luminescence whispering gallery modes in Ho³⁺ doped microresonator glasses for temperature sensing. *Journal of Alloys and Compounds*. 777, pp. 198 - 203. METALLURGY & METALLURGICAL ENGINEERING05/01/2019.
DOI: 10.1016/j.jallcom.2018.10.297
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 4.65
Position of publication: 8
Category: METALLURGY & METALLURGICAL ENGINEERING
Journal in the top 25%: Yes
No. of journals in the cat.: 79
- 17** F. Lahoz; I. R. Martín; K. Soler-Carracedo; J. M. Cáceres; J. Gil-Rostra; F. Yubero. Holmium doped fiber thermal sensing based on an optofluidic Fabry-Perot microresonator. *Journal of Luminescence*. 206, pp. 492 - 497. Science Edition - OPTICS01/01/2019.
DOI: 10.1016/j.jlumin.2018.10.103
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3.28
Position of publication: 21
Category: Science Edition - OPTICS
Journal in the top 25%: Yes
No. of journals in the cat.: 97
- 18** M. A. Hernández-Rodríguez; A. D. Lozano-Gorrín; V. Lavín; U. R. Rodríguez-Mendoza; I. R. Martín; F. J. Manjón. Analysis of the upconversion emission of yttrium orthoaluminate nanoperovskite co-doped with Er³⁺/Yb³⁺ ions for thermal sensing applications. *Journal of Luminescence*. 202, pp. 316 - 321. Science Edition - OPTICS01/08/2018.
DOI: 10.1016/j.jlumin.2018.05.078
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,961
Position of publication: 26
Category: Science Edition - OPTICS
Journal in the top 25%: No
No. of journals in the cat.: 95



- 19** A. D. Lozano-Gorrin; U. R. Rodríguez-Mendoza; V. Venkatramu; V. Monteseuro; M. A. Hernández-Rodríguez; I. R. Martín; V. Lavín. Lanthanide-doped Y₃Ga₅O₁₂ garnets for nanoheating and nanothermometry in the first biological window. *Optical Materials*. 84, pp. 46 - 51. Science Edition - OPTICS30/03/2018.
DOI: 10.1016/j.optmat.2018.06.043
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,687
Position of publication: 34
Category: Science Edition - OPTICS
Journal in the top 25%: No
No. of journals in the cat.: 95
- 20** R. Guerrero-Lemus; M. Sierra; I. R. Martín; C. Hernández-Rodríguez; D. Borchert; J. Sanchiz. Alternative and fully experimental procedure for characterizing down-shifters placed on photovoltaic devices. *Solar Energy Materials and Solar Cells*. 185, pp. 312 - 317. Science Edition - ENERGY & FUELS01/03/2018.
DOI: 10.1016/j.solmat.2018.05.051
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 6,019
Position of publication: 14
Category: Science Edition - ENERGY & FUELS
Journal in the top 25%: Yes
No. of journals in the cat.: 103
- 21** L. de Sousa-Vieira; S. Ríos; I. R. Martín; L. García-Rodríguez; V. N. Sigaev; V. I. Savinkov; G. Yu Shakhgildyan. Whispering gallery modes in a holmium doped glass microsphere: Temperature sensor in the second biological window. *Optical Materials*. 83, pp. 207 - 211. Science Edition - OPTICS02/02/2018.
DOI: 10.1016/j.optmat.2018.06.014
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,687
Position of publication: 34
Category: Science Edition - OPTICS
Journal in the top 25%: No
No. of journals in the cat.: 95
- 22** L. García-Rodríguez; L. de Sousa-Vieira; M. A. Hernández-Rodríguez; A. D. Lozano-Gorrin; V. Lavín; U. R. Rodríguez-Mendoza; J. González-Platas; S. Ríos; I. R. Martín. Nanoperovskite doped with Yb³⁺ and Tm³⁺ ions used as an optical upconversion temperature sensor. *Optical Materials*. 83, pp. 187 - 191. Science Edition - OPTICS01/02/2018.
DOI: 10.1016/j.optmat.2018.06.009
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,687
Position of publication: 34
Category: Science Edition - OPTICS
Journal in the top 25%: No
No. of journals in the cat.: 95
- 23** M. Runowski; A. Bartkowiak; M. Majewska; I. R. Martín; S. Lis. Upconverting lanthanide doped fluoride NaLuF₄:Yb³⁺-Er³⁺-Ho - optical sensor for multi-range fluorescence intensity ratio (FIR) thermometry in visible and NIR regions. *Journal of Luminescence*. 201, pp. 104 - 109. Science Edition - OPTICS26/01/2018.
DOI: 10.1016/j.jlumin.2018.04.040
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,961
Position of publication: 26
Category: Science Edition - OPTICS
Journal in the top 25%: No
No. of journals in the cat.: 95



- 24** R. Praveena; P. Venkatalakshamma; V. Sravani Sameera; V. Venkatramu; I. R. Martin; V. Lavín; C. K. Jayasankar. Near-infrared and blue cooperative Yb³⁺ luminescence in Lu₃Sc₂Ga₃O₁₂ nano-garnets. *Materials Research Bulletin*. 101, pp. 347 - 352. Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY25/01/2018.
DOI: 10.1016/j.materresbull.2018.02.001
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3,355
Position of publication: 87
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 293
- 25** M. A. Hernández-Rodríguez; J. E. Muñoz-Santiuste; V. Lavín; A. D. Lozano-Gorrín; P. Rodríguez-Hernández; A. Muñoz; V. Venkatramu; I. R. Martin; U. R. Rodríguez-Mendoza. High pressure luminescence of Nd³⁺ in AlO₃ perovskite nanocrystals: A crystal-field analysis. *The Journal of Chemical Physics*. 148, pp. 044201-01 - 044201-10. Science Edition - PHYSICS, ATOMIC, MOLECULAR & CHEMICAL20/01/2018.
DOI: 10.1063/1.5010150
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,997
Position of publication: 11
Category: Science Edition - PHYSICS, ATOMIC, MOLECULAR & CHEMICAL
Journal in the top 25%: No
No. of journals in the cat.: 36
- 26** R. Guerrero-Lemus; J. Sanchiz; M. Sierra-Ramos; I. R. Martín; C. Hernández-Rodríguez; D. Borchert. Downshifting maximization procedure applied to [Eu(bphen)(tta) 3] at different concentrations applied to a photovoltaic device and covered with a hemispherical reflector. *Sensors and Actuators A: Physical*. 271, pp. 60 - 65. Science Edition - INSTRUMENTS & INSTRUMENTATION10/01/2018.
DOI: 10.1016/j.sna.2018.01.010
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,739
Position of publication: 19
Category: Science Edition - INSTRUMENTS & INSTRUMENTATION
Journal in the top 25%: No
No. of journals in the cat.: 61
- 27** M. A. Hernández-Rodríguez; María M Afonso; J. Antonio Palenzuela; I. R. Martín; K. Soler-Carracedo. Carbon dots as temperature nanosensors in the physiological range. *Journal of Luminescence*. 196, pp. 313 - 315. Science Edition - OPTICS05/01/2018.
DOI: 10.1016/j.jlumin.2017.12.062
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,961
Position of publication: 26
Category: Science Edition - OPTICS
Journal in the top 25%: No
No. of journals in the cat.: 95
- 28** M. A. Hernández-Rodríguez; U. R. Rodríguez-Mendoza; V. Lavín; J. E. Muñoz-Santiuste; I. R. Martín; A. D. Lozano-Gorrín. High pressure sensitivity of anti-Stokes fluorescence in Nd³⁺ doped yttrium orthoaluminate nano-perovskites. *Journal of Luminescence*. 196, pp. 20 - 24. Science Edition - OPTICS04/01/2018.
DOI: 10.1016/j.jlumin.2017.12.008
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2.961
Position of publication: 26
Category: Science Edition - OPTICS
Journal in the top 25%: No
No. of journals in the cat.: 95

- 29** G. Torres Jasso; E. Montes; J. C. Guzmán Olguín; D. Sánchez Guzmán; R. I. López Esquivel; I. R. Martín; J. Guzmán Mendoza. Upconversion emission of ZrO₂ nanoparticles with erbium (Er³⁺) and ytterbium (Yb³⁺), synthesized by hidrothermal route. *Ceramics International*. 44, pp. 154 - 157. Science Edition - MATERIALS SCIENCE, CERAMICS03/01/2018.
DOI: 10.1016/j.ceramint.2017.09.152
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3,45
Position of publication: 2
Category: Science Edition - MATERIALS SCIENCE, CERAMICS
Journal in the top 25%: Yes
No. of journals in the cat.: 28
- 30** M. A. Hernández-Rodríguez; A. D. Lozano-Gorrín; I. R. Martín; U. R. Rodríguez-Mendoza; V. Lavín. Comparison of the sensitivity as optical temperature sensor of nanoperovskite doped with Nd⁺ ions in the first and second biological windows. *Sensor and Actuators: B. Chemical*. 255, pp. 970 - 976. Science Edition - CHEMISTRY, ANALYTICAL01/01/2018.
DOI: 10.1016/j.snb.2017.08.140
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 6,393
Position of publication: 6
Category: Science Edition - CHEMISTRY, ANALYTICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 84
- 31** G. Venkataiah; P. Babu; I. R. Martín; K. Venkata Krishnaiah; K. Suresh; V. Lavín; C. K. Jayasankar. Spectroscopic studies on Yb-doped tungsten-tellurite glasses for laser applications. *Journal of Non-Crystalline Solids*. 479, pp. 9 - 15. Science Edition - MATERIALS SCIENCE, CERAMICS01/01/2018.
DOI: 10.1016/j.jnoncrysol.2017.09.036
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,6
Position of publication: 4
Category: Science Edition - MATERIALS SCIENCE, CERAMICS
Journal in the top 25%: Yes
No. of journals in the cat.: 28
- 32** M. A. Hernández-Rodríguez; A. D. Lozano-Gorrín; V. Lavín; U. R. Rodríguez-Mendoza; I. R. Martín. Yttrium orthoaluminate nanoperovskite doped with Tm ions as upconversion optical temperature sensor in the near-infrared region. *Optics Express*. 25, pp. 27845 - 27856. Science Edition - OPTICS02/11/2017.
DOI: 10.1364/OE.25.027845
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3,356
Position of publication: 19
Category: Science Edition - OPTICS
Journal in the top 25%: Yes
No. of journals in the cat.: 94
- 33** E. Cortés-Adasme; M. Vega; I. R. Martín; J. Llanos. Synthesis and Characterization of SrSnO₃ doped with Er³⁺ for Up-conversion Luminescence Temperature Sensors. *RSC ADvances*. 7, pp. 46796. Science Edition - CHEMISTRY, MULTIDISCIPLINARY25/10/2017.
DOI: 10.1039/c7ra08603b
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,936
Position of publication: 71
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 171

- 34** F. Lahoz; I. R. Martín; D. Walo; R. Freire; J. Gil-Rostra; F. Yubero; A. R. González-Elipe. Enhanced green fluorescent protein in optofluidic Fabry-Perot microcavity to detect laser induced temperature changes in a bacterial culture. *Applied Physics Letters*. 111, pp. 111103-1 - 111103-5. Science Edition - PHYSICS, APPLIED10/09/2017.
DOI: 10.1063/1.4990870
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3,495
Position of publication: 29
Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: Yes
No. of journals in the cat.: 146
- 35** E. C. Ximendes; U. Rocha; T. O. Sales; N. Fernández; F. Sanz-Rodríguez; I. R. Martín; C. Jacinto; D. Jaque. In vivo Subcutaneous Thermal Video Recording by Supersensitive Infrared Nanothermometers. *Advanced Functional Materials*. 1702249, pp. 1702249-1 - 1702249-10. Science Edition - PHYSICS, CONDENSED MATTER01/09/2017.
DOI: 10.1002/adfm.201702249
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 13,325
Position of publication: 7
Category: Science Edition - PHYSICS, CONDENSED MATTER
Journal in the top 25%: Yes
No. of journals in the cat.: 67
- 36** H. Marzougui; S. Attia-Essaies; I. R. Martín; C. Pérez-Rodríguez; S. F. León-Luis; A. D. Lozano-Gorrín; J. Sanchiz; D. Ben Hassen Chehimi. Optical Properties of Nd³⁺-doped Tutton salts crystals. *Journal of Luminescence*. 192, pp. 136 - 140. optics31/07/2017.
DOI: 10.1016/j.jlumin.2017.06.049
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,732
Position of publication: 25
Category: optics
Journal in the top 25%: No
No. of journals in the cat.: 94
- 37** M. A. Hernández-Rodríguez; V. Monteseuro; A. D. Lozano-Gorrín; F. J. Manjón; J. González-Platas; P. Rodríguez-Hernández; A. Muñoz; V. Lavín; I. R. Martín; U. R. Rodríguez-Mendoza. Structural, Vibrational, and Elastic Properties of Yttrium Orthoaluminate Nanoperovskite at High Pressures. *Journal of Physical Chemistry C*. 121, pp. 15353 - 15367. Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY24/07/2017.
DOI: 10.1021/acs.jpcc.7b04245
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 4,484
Position of publication: 54
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 285
- 38** K. Venkata Krishnaiah; P. Venkata Lakshamma; Ch. Basavapoornima; I. R. Martín; K. Soler-Carracedo; M. A. Hernández-Rodríguez; V. Venkatramu; C. K. Jayasankar. Er³⁺-doped tellurite glasses for enhancing a solar cell photocurrent through photon upconversion upon 1500 nm excitation. *Materials Chemistry and Physics*. 199, pp. 67. Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY06/06/2017.
DOI: 10.1016/j.matchemphys.2017.06.003
Type of production: Scientific paper
Impact source: ISI
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY



Impact index in year of publication: 2,21
Position of publication: 127

Journal in the top 25%: No
No. of journals in the cat.: 285

- 39** G. Martínez-Criado; B. Alén; J. A. Sans; A.D. Lozano-Gorrín; P. Haro González; I. R. Martín; V. Lavín. X-ray nanoimaging of Nd³⁺ optically active ions embedded in Sr_{0.5}Ba_{0.5}Nb₂O₆ nanocrystals. *Optical Materials Express*. 7 - 7, pp. 2424 - 2431. Science Edition - OPTICS26/05/2017.

DOI: 10.1364/OME.7.002424

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 2,566

Position of publication: 30

Category: Science Edition - OPTICS

Journal in the top 25%: No

No. of journals in the cat.: 94

- 40** M. A. Hernández-Rodríguez; A. D. Lozano-Gorrín; I. R. Martín; U. R. Rodríguez-Mendoza; V. Lavín. Spectroscopic properties of Nd³⁺ ions in YAP nano-perovskites. *Journal of Luminescence*. 188, pp. 204 - 208. optics24/05/2017.

DOI: 10.1016/j.jlumin.2017.04.031

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 2,732

Position of publication: 25

Category: optics

Journal in the top 25%: No

No. of journals in the cat.: 94

- 41** P. Haritha; I. R. Martín; C. S. Dwaraka Viswanath; N. Vijaya; K. Venkata Krishnaiah; C. J. Jayasankar; D. Haranath; V. Lavín; V. Venkatramu. Structure, morphology, and optical characterization of Dy³⁺-doped BaYF₅ nanocrystals for warm white light emitting devices. *Optical Materials*. 70, pp. 16 - 24. Science Edition - OPTICS02/05/2017.

DOI: 10.1016/j.optmat.2017.05.002

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 2,32

Position of publication: 36

Category: Science Edition - OPTICS

Journal in the top 25%: No

No. of journals in the cat.: 94

- 42** A. Souamti; I. R. Martín; A. D. Lozano-Gorrín; L. Zayani; D. Ben Hassen Chehimi. Luminescence properties of Pr ion doped Mg-picromerite Tutton salt. *Journal of Luminescence*. 188, pp. 148 - 153. Science Edition - OPTICS28/04/2017.

DOI: 10.1016/j.jlumin.2017.04.022

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 2,732

Position of publication: 25

Category: Science Edition - OPTICS

Journal in the top 25%: No

No. of journals in the cat.: 94

- 43** F. Lahoz; I. R. Martín; D. Walo; J. Gil-Rostrá; F. Yubero; A. R. González-Felipe. A compact and portable optofluidic device for detection of liquid properties and label-free sensing. *Journal of Physics D: Applied Physics*. 50, pp. 215103. Science Edition - PHYSICS, APPLIED15/03/2017.

DOI: 10.1088/1361-6463/aa6cdd

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 2,373

Position of publication: 54

Category: Science Edition - PHYSICS, APPLIED

Journal in the top 25%: No

No. of journals in the cat.: 146



- 44** M. Vega; P. Alemany; I. R. Martín; J. Llanos. Structural properties, Judd-Ofelt calculations, and near infrared to visible photon up-conversion in Er³⁺/Yb³⁺ doped BaTiO₃ phosphors under excitation at 1500 nm. RSC ADVANCES. 7, pp. 10529 - 10538. Science Edition - CHEMISTRY, MULTIDISCIPLINARY13/03/2017.
DOI: 10.1039/c6ra28725e
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,936
Position of publication: 71
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 171
- 45** L. Labrador-Paez; K. Soler-Carracedo; M. Hernández-Rodríguez; I. R. Martín; T. Carmon; L. L. Martin. Liquid whispering-gallery-mode resonator as a humidity sensor. Optics Express. 25, pp. 1165 - 1172. Science Edition - OPTICS30/01/2017.
DOI: 10.1364/OE.25.001165
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3,356
Position of publication: 19
Category: Science Edition - OPTICS
Journal in the top 25%: Yes
No. of journals in the cat.: 94
- 46** S. Fuentes; P. Muñoz; J. Llanos; M. Vega; I. R. Martín; E. Chavez-Angel. Synthesis and optical characterization of Er-doped bismuth titanate nanoparticles grown by sol-gel hydrothermal method. Ceramics International. 43, pp. 3623 - 3630. Science Edition - MATERIALS SCIENCE, CERAMICS20/01/2017.
DOI: 10.1016/j.ceramint.2016.11.200
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3,057
Position of publication: 3
Category: Science Edition - MATERIALS SCIENCE, CERAMICS
Journal in the top 25%: Yes
No. of journals in the cat.: 30
- 47** M. Glowacki; Piotr Solarz; W. Ryba-Romanowski; I. R. Martín; R. Diduszko; M. Berkowski. Europium and potassium co-doped strontium metaborate single crystals grown by the Czochralski method. Journal of Crystal Growth. 457, pp. 107 - 111. Science Edition - PHYSICS, APPLIED15/01/2017.
DOI: 10.1016/j.jcrysgr.2016.07.007
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 1,742
Position of publication: 75
Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: No
No. of journals in the cat.: 146
- 48** M. Vega; S. Fuentes; I. R. Martín; J. Llanos. Up-conversion photoluminescence of BaTiO₃ doped with Er³⁺ under excitation at 1500 nm. Materials Research Bulletin. 86, pp. 95 - 100. Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY01/01/2017.
DOI: 10.1016/j.materresbull.2016.10.001
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,873
Position of publication: 91
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 285

- 49** P. Martín-Ramos; L. C. J. Pereira; J. T. Coutinho; F. Koprowiak; H. Bolvin; V. Lavín; I. R. Martín; J. Martín-Gil; M. Ramos-Silva. Structure, luminescence and magnetic properties of an erbium(III) B-diketonate homodinuclear complex. *New Journal of Chemistry*. 40, pp. 8251 - 8261. Science Edition - CHEMISTRY, MULTIDISCIPLINARY01/10/2016.
DOI: 10.1039/c6nj01598k
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3,269
Position of publication: 52
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 166
- 50** L. Labrador-Páez; C. Pérez-Rodríguez; I. R. Martín; V. Lavín. Glass Heating through submicron spots produced with silica microspheres. *Journal of Luminescence*. 180, pp. 8 - 13. Science Edition - OPTICS15/09/2016.
DOI: 10.1016/j.jlumin.2016.08.013
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,686
Position of publication: 25
Category: Science Edition - OPTICS
Journal in the top 25%: No
No. of journals in the cat.: 92
- 51** S. F. León-Luis; V. Monteseuro; U. R. Rodríguez-Mendoza; I. R. Martín; D. Alonso; J. M. Cáceres; V. Lavín. 2CaOAl₂O₃:Er³⁺ glass: An Efficient optical temperature sensor. *Journal of Luminescence*. 179, pp. 272 - 279. Science Edition - OPTICS01/09/2016.
DOI: 10.1016/j.jlumin.2016.07.005
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,686
Position of publication: 25
Category: Science Edition - OPTICS
Journal in the top 25%: No
No. of journals in the cat.: 92
- 52** J. Gil-Rostra; F. J. Ferrer; I. R. Martín; A. R. González-Felipe; F. Yubero. Cathode and ion-luminescence of Eu:ZnO thin films prepared by reactive magnetron sputtering and plasma decomposition of non-volatile precursors. *Journal of Luminescence*. 178, pp. 139 - 146. Science Edition - OPTICS01/08/2016.
DOI: 10.1016/j.jlumin.2016.01.034
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,686
Position of publication: 25
Category: Science Edition - OPTICS
Journal in the top 25%: No
No. of journals in the cat.: 92
- 53** F. Lahoz; I. R. Martín; J. Gil-Rostra; M. Oliva-Ramírez; F. Yubero; A. R. Gonzalez-Elipe. Portable IR dye laser optofluidic microresonator as a temperature and chemical sensor. *Optics Express*. 24, pp. 14383 - 14392. Science Edition - OPTICS15/07/2016.
DOI: 10.1364/OE.24.014383
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3,307
Position of publication: 16
Category: Science Edition - OPTICS
Journal in the top 25%: Yes
No. of journals in the cat.: 92

- 54** O. Oswaldo; Marcos F. Guerra-Medina; I. R. Martín; F. Delgado; R. Pérez-Jimenez. Adaptive WHTS-Assisted SDMA-OFDM Scheme Fair Resource Allocation in Multi-Users Visible Light Communications. Journal of Optical Communications and Networking. 8, pp. 427 - 440. Science Edition - COMPUTER SCIENCE, HARDWARE & ARCHITECTURE01/07/2016.
DOI: 10.1364/JOCN.8.000427
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,283
Position of publication: 14
Category: Science Edition - COMPUTER SCIENCE, HARDWARE & ARCHITECTURE
Journal in the top 25%: No
No. of journals in the cat.: 52
- 55** A. Souamti; I. R. Martín; L. Zayani; M. A. Hernández-Rodríguez; K. Soler-Carracedo; A. D. Lozano-Gorrín; E. Lalla; D. Ben Hassen Chehimi. Synthesis, structural characterization and optical study of Dy³⁺-doped langbeinite salts. Journal of Luminescence. 177, pp. 160 - 165. Science Edition - OPTICS01/06/2016.
DOI: 10.1016/j.jlumin.2016.04.045
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,686
Position of publication: 25
Category: Science Edition - OPTICS
Journal in the top 25%: No
No. of journals in the cat.: 92
- 56** A. Souamti; I. R. Martín; L. Zayani; M. A. Hernández-Rodríguez; K. Soler-Carracedo; A. D. Lozano-Gorrín; E. Lalla; D. Ben Hassen Chehimi. Synthesis, characterization and spectroscopic properties of a new Nd³⁺-doped Co-picromerite-type Tutton salt. Journal of Luminescence. 177, pp. 93 - 98. Science Edition - OPTICS01/05/2016.
DOI: 10.1016/j.jlumin.2016.04.033
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,686
Position of publication: 25
Category: Science Edition - OPTICS
Journal in the top 25%: No
No. of journals in the cat.: 92
- 57** E. Montes; I. Martínez-Merlín; J. C. Guzmán-Olguín; J. Guzman-Mendoza; I. R. Martín; M. García-Hipólito; C. Falcony. Effect of pH on the optical and structural properties of HfO₂:Ln³⁺, synthesized by hydrothermal route. Journal of Luminescence. 175, pp. 243 - 248. Science Edition - OPTICS07/04/2016.
DOI: 10.1016/j.jlumin.2016.03.009
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,686
Position of publication: 25
Category: Science Edition - OPTICS
Journal in the top 25%: No
No. of journals in the cat.: 92
- 58** A. Souamti; I. R. Martín; L. Zayani; M. A. Hernández-Rodríguez; K. Soler-Carracedo; A. D. Lozano-Gorrín; D. Ben Hassen Chehimi. Blue up-conversion emission of Yb³⁺-doped langbeinite salts. Optical Materials. 53, pp. 190 - 194. Science Edition - OPTICS27/01/2016.
DOI: 10.1016/j.optmat.2016.01.052
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,238
Position of publication: 36
Format: Journal
Category: Science Edition - OPTICS
Journal in the top 25%: No
No. of journals in the cat.: 92

- 59** M. H. Imanieh; M. Hamed Rad; A. Nadarajah; J. González-Platas; F. Rivera-López; I. R. Martín. Novel perovskite ceramics for chemical looping combustion application. *Journal of CO2 utilization*. 13, pp. 95 - 104. Science Edition - CHEMISTRY, MULTIDISCIPLINARY25/01/2016.
DOI: 10.1016/j.jcou.2016.01.001
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 4,292
Position of publication: 33
Format: Journal
Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 166
- 60** J. Moore; L. L. Martín; S. Maayani; K. H. Kim; H. Chandralalim; M. Eichenfield; I. R. Martín; Tal Carmon. Regular oscillations and random motion of glass microspheres levitated by a single optical beam in air. *Optics Express*. 24, pp. 2850. Science Edition - OPTICS18/01/2016.
DOI: 10.1364/OE.24.002850
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3,307
Position of publication: 17
Format: Journal
Category: Science Edition - OPTICS
Journal in the top 25%: Yes
No. of journals in the cat.: 92
- 61** M. H. Imanieh; I. R. Martín; A. Nadarajah; Joseph G. Lawrence; V. Lavín; J. González-Platas. Upconversion emission of a novel glass ceramic containing Sr_{1-x}Yx₂F_{2+x} nano-crystals. *Journal of Luminescence*. 172, pp. 201 - 207. Science Edition - OPTICS07/01/2016.
DOI: 10.1016/j.jlumin.2015.12.026
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,686
Position of publication: 25
Format: Journal
Category: Science Edition - OPTICS
Journal in the top 25%: No
No. of journals in the cat.: 92
- 62** H. Rodríguez-Rodríguez; M. H. Imanieh; F. Lahoz; I. R. Martín. Analysis of the upconversion process in Tm³⁺-doped glasses for enhancement of the photocurrent in silicon solar cells. *Solar Energy Materials & Solar Cells*. 144, pp. 29 - 32. Science Edition - PHYSICS, APPLIED05/01/2016.
DOI: 10.1016/j.solmat.2015.08.017
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 4,784
Position of publication: 13
Format: Journal
Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: Yes
No. of journals in the cat.: 92
- 63** P. Babu; I. R. Martín; G. Venkataiah; V. Venkatramu; V. Lavín; C.K. Jayasankar. Blue-green cooperative upconverted luminescence and radiative energy transfer in Yb³⁺-doped tungsten tellurite glass. *Journal of Luminescence*. 169, pp. 233 - 237. Science Edition - OPTICS01/01/2016.
DOI: 10.1016/j.jlumin.2015.08.052
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,686
Position of publication: 25
Format: Journal
Category: Science Edition - OPTICS
Journal in the top 25%: No
No. of journals in the cat.: 92

- 64** Mamilla Rathaiah; Pamuluri Haritha; Kadathala Linganna; Virginia Monteseuro; I. Rafael Martín; Antonio Diego Lozano-Gorrín; Palamandala Babu; Chalicheemalapalli Kulala Jayasankar; Victor Lavín; Vemula Venkatramu. Infrared-to-Visible Light Conversion in Er³⁺-Yb³⁺:Lu₃Ga₅O₁₂ Nanogarnets. ChemPhysChem. 16, pp. 3928 - 3936. PHYSICS, ATOMIC, MOLECULAR & CHEMICAL01/11/2015.
DOI: 10.1002/cphc.201500694
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3,138
Position of publication: 8
Format: Journal
Category: PHYSICS, ATOMIC, MOLECULAR & CHEMICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 35
- 65** L. Labrador-Páez; C. Pérez-Rodríguez; S. Ríos; D. Alonso; J. M. Cáceres; I. R. Martín. Temperature dependence of the whispering gallery modes obtained in a glass microsphere codoped with Er³⁺-Yb³⁺ ions. Sensors and Actuators A:Physical. 233, pp. 422 - 426. Science Edition - INSTRUMENTS & INSTRUMENTATION01/10/2015.
DOI: 10.1016/j.sna.2015.07.036
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,201
Position of publication: 10
Format: Journal
Category: Science Edition - INSTRUMENTS & INSTRUMENTATION
Journal in the top 25%: Yes
No. of journals in the cat.: 56
- 66** Witold Ryba-Romanowski; Radoslaw Lisiecki; Elena Beregi; I.R.Martín. Spontaneous and stimulated emission in Sm³⁺-doped YAl₃(BO₃)₄ single crystal. Journal of Luminescence. 167, pp. 163 - 166. Science Edition - OPTICS01/09/2015.
DOI: 10.1016/j.jlumin.2015.06.010
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,693
Position of publication: 18
Category: Science Edition - OPTICS
Journal in the top 25%: Yes
No. of journals in the cat.: 90
- 67** Blanca del Rosal; Alberto Pérez-Delgado; Malcorzata Misiak; A. Bednarkiewicz; A. S. Vanetsev; Y. Orlovskii Dragana; J. Jovanovic; M. D. Dramicanin; Ueslen Rocha; K. Upendra Kumar; Carlos Jacinto; Elizabeth Navarro; Emma Martín Rodríguez; Marco Pedroni; Adolfo Speghini; Gustavo A. Hirata; I. R. Martín; Daniel Jaque. Neodymium-doped nanoparticles for infrared fluorescence bioimaging: The role of the host. Journal of Applied Physics. 118, pp. 143104-1 - 143104-11. Science Edition - PHYSICS, APPLIED01/08/2015.
DOI: 10.1063/1.4932669
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,101
Position of publication: 47
Format: Journal
Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: No
No. of journals in the cat.: 145
- 68** A.Strzep; I. R. Martín; M.G?owacki; W.Ryba-Romanowski; M.Berkowski. Investigation of spectroscopic properties and energy transfer between Ce and Dy in (Lu_{0.2}Gd_{0.8-x-y}Ce_xDy_y)₂SiO₅ single crystals. Journal of Luminescence. 166, pp. 304 - 312. Science Edition - OPTICS01/07/2015.
DOI: 10.1016/j.jlumin.2015.05.013
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,693
Position of publication: 18
Format: Journal
Category: Science Edition - OPTICS
Journal in the top 25%: Yes
No. of journals in the cat.: 90



- 69** H. Marzoughi; I. R. Martín; S. Attia-Essaies; Dalila Ben Hassen-Chehimi; E. Lalla; S. F. León-Luis. Site selective luminescence of Eu³⁺ ions in K₂Mg(SO₄)₂·6H₂O crystal. *Optical Materials*. 46, pp. 339 - 344. Science Edition - OPTICS01/06/2015.
DOI: 10.1016/j.optmat.2015.04.041
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2.183
Position of publication: 25
Format: Journal
Category: Science Edition - OPTICS
Journal in the top 25%: No
No. of journals in the cat.: 90
- 70** V. Monteseuro; M. Rathaiah; K. Linganna; A.D. Lozano-Gorrín; M.A. Hernández- Rodríguez; I. R. Martín; P. Babu; U. R. Rodríguez-Mendoza; F. J. Manjón; A. Muñoz; C. K. Jayasankar; V. Venkatramu; V. Lavín. Chemical pressure effects on the spectroscopic properties of Nd³⁺-doped gallium nano-garnets. *Optical Material Express*. 5 - 9, pp. 1661 - 1673. Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY01/05/2015.
DOI: 10.1364/OME.5.001661
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,657
Position of publication: 65
Format: Journal
Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 271
- 71** F. Lahoz; I.R. Martín; M. Urgellés; J. Marrero-Alonso; R. Marín; C. J. Saavedra; A. Boto; M. Díaz. Random laser in biological tissues impregnated with a fluorescent anticancer drug. *Laser Physics Letters*. 12, pp. 045805. Science Edition - OPTICS01/03/2015.
DOI: 10.1088/1612-2011/12/4/045805
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,391
Position of publication: 22
Format: Journal
Category: Science Edition - OPTICS
Journal in the top 25%: Yes
No. of journals in the cat.: 90
- 72** C. Pérez Rodríguez; L. Labrador-Páez; I. R. Martín; S. Ríos. Temperature response of the Whispering Gallery Mode resonances from the green upconversion emission of an Er³⁺-Yb³⁺ co-doped microsphere. *Laser Physics Letters*. 12, pp. 046003. Science Edition - OPTICS01/02/2015.
DOI: 10.1088/1612-2011/12/4/046003
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,391
Position of publication: 22
Category: Science Edition - OPTICS
Journal in the top 25%: Yes
No. of journals in the cat.: 90
- 73** P. Martín-Ramos; P. Chamorro-Posada; M. Ramos Silva; P. S. Pereira da Silva; I. R. Martín; F. Lahoz; V. Lavín; J. Martín-Gil. Synthesis, structural modelling and luminescence of a novel erbium(III) complex with 2,4-nonanedione and 2,2'-bipyridine ligands for chitosan matrices doping. *Optical Materials*. 41, pp. 139 - 142. Science Edition - OPTICS02/01/2015.
DOI: 10.1016/j.optmat.2014.09.036
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,183
Position of publication: 25
Category: Science Edition - OPTICS
Journal in the top 25%: No
No. of journals in the cat.: 90



- 74** P. Martín-Ramos; I. R. Martín; F. Lahoz; S. Hernández-Navarro; P. S. Pereira da Silva; I. Hernández-Campo; V. Lavín; M. Ramos Silva. An erbium(III)-based NIR emitter with a highly conjugated β -diketonate for blue-region sensitization. *Journal of Alloys and Compounds*. 619, pp. 553 - 559. Science Edition - METALLURGY & METALLURGICAL ENGINEERING01/01/2015.
DOI: 10.1016/j.jallcom.2014.09.090
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3,014
Position of publication: 4
Category: Science Edition - METALLURGY & METALLURGICAL ENGINEERING
Journal in the top 25%: Yes
No. of journals in the cat.: 73
- 75** M. Rathaiah; I. R. Martín; P. Babu; K. Linganna; C. K. Jayasankar; V. Lavín; V. Venkatramu. Photon avalanche upconversion in Ho³⁺-doped gallium nano-garnets. *Optical Materials*. 39, pp. 16 - 20. Science Edition - OPTICS01/01/2015.
DOI: 10.1016/j.optmat.2014.10.050
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2,183
Position of publication: 25
Category: Science Edition - OPTICS
Journal in the top 25%: No
No. of journals in the cat.: 90
- 76** M.R. Silva; P. Martín-Ramos; J.T. Coutinho; L.C.J. Pereira; V. Lavín; I. R. Martín; P.S.P. Silva; J. Martín-Gil. Slow magnetic relaxation mechanisms in erbium SIMs. *Dalton Transactions*. 44, pp. 1264 - 1272. Science Edition - CHEMISTRY, INORGANIC & NUCLEAR01/01/2015.
DOI: 10.1039/c4dt02767a
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 4,177
Position of publication: 10
Category: Science Edition - CHEMISTRY, INORGANIC & NUCLEAR
Journal in the top 25%: Yes
No. of journals in the cat.: 46
- 77** P. Haritha; I. R. Martín; K. Linganna; V. Monteseuro; P. Babu; S. F. León-Luis; C. J. Jayasankar; U. R. Rodríguez-Mendoza; V. Lavín; V. Venkatramu. Optimizing white light luminescence in Dy³⁺-doped Lu₃Ga₅O₁₂ nano-garnets. *Journal of Applied Physics*. 116, pp. 174308-1 - 174308-7. 12/12/2014.
Type of production: Scientific paper
- 78** P. Martín-Ramos; C. Coya-Párraga; V. Lavín; I. R. Martín; M. Ramos Silva; P. S. Pereira Silva; M. García-Vélez; A. L. Álvarez; J. Martín-Gil. Active layer solution-processed NIR-OLEDs based on ternary erbium(III) complexes with 1,1,1-trifluoro-2,4-pentanedione and different N,N-donors. *Dalton Transactions*. 43, pp. 18087 - 18096. 11/11/2014.
Type of production: Scientific paper
- 79** M. Suárez; A. Fernández; J. L. Menéndez; M. Nygren; Z. Zhao; R. Torrecillas; P. Acosta Mora; P. Haro-González; J. J. Romero; I. R. Martín. Analysis of the upconversion processes of Nd³⁺ ions in transparent YAG ceramics. *Ceramics International*. 40, pp. 15951 - 15956. 19/08/2014.
Type of production: Scientific paper
- 80** P. Martín-Ramos; M. Ramos Silva; F. Lahoz; I. R. Martín; P. Chamorro-Posada; M. E. S. Eusebio; V. Lavín; J. Martín-Gil. Highly fluorinated erbium(III) complexes for emission in the C-band. *Journal of Photochemistry and Photobiology A: Chemistry*. 292, pp. 16 - 25. 16/07/2014.
Type of production: Scientific paper



- 81** W. Ryba-Romanowski; A. Strzep; R. Lisiecki; M. Berkowski; H. Rodríguez-Rodríguez; I. R. Martín. Effect of substitution of lutetium by gadolinium on emission characteristics of $(\text{Lu}_x\text{Gd}_{1-x})_2\text{SiO}_5: \text{Sm}^{3+}$ single crystals. *Optical Materials Express*. 4 - 4, pp. 739 - 752. 21/03/2014.
Type of production: Scientific paper **Format:** Journal
- 82** P. Babu; I. R. Martín; K. V. Krishnaiah; H. J. Seo; V. Venkatramu; C. K. Jayasankar; V. Lavín. Photon avalanche upconversion in Ho^{3+} - Yb^{3+} co-doped transparent oxyfluoride glass-ceramics. *Chemical Physics Letters*. 600, pp. 34 - 37. CHEMISTRY, PHYSICAL20/03/2014.
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** CHEMISTRY, PHYSICAL
Impact index in year of publication: 2.145 **Journal in the top 25%:** No
Position of publication: 67 **No. of journals in the cat.:** 135
- 83** M. H. Imanieh; I. R. Martín; B. Eftekhari Yekta; J. González-Platas; A. Hernández-Creus. Investigation on Crystallization and Optical Properties of $\text{Ca}_{1-x}\text{La}_x\text{F}_{2+x}$ glass ceramics. *Journal of the American Ceramic Society*. 97 - 3, pp. 782 - 788. MATERIALS SCIENCE, CERAMICS07/03/2014.
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** MATERIALS SCIENCE, CERAMICS
Impact index in year of publication: 2.107 **Journal in the top 25%:** Yes
Position of publication: 2 **No. of journals in the cat.:** 27
- 84** K. Venkata Krishnaiah; R. Rajeswari; K. Upendra Kumar; S. Surendra Babu; I. R. Martín; C.K. Jayasankar. Spectroscopy and radiation trapping of Yb^{3+} ions in lead phosphate glasses. *Journal of Quantitative Spectroscopy and Radiative Transfer*. 140, pp. 37 - 47. Spectroscopy13/02/2014.
Type of production: Scientific paper **Category:** Spectroscopy
Impact source: ISI **Journal in the top 25%:** No
Impact index in year of publication: 2.38 **No. of journals in the cat.:** 43
Position of publication: 14
- 85** C. Pérez-Rodríguez; L. L. Martín; S. F. León-Luis; I. R. Martín; K. Kiran Kumar; C. K. Jayasankar. Relevance of radiative transfer processes on Nd^{3+} doped phosphate glasses for temperature sensing by means of the Fluorescence Intensity Ratio technique. *Sensors & Actuators: B Chemical*. 195, pp. 324 - 331. Science Edition - INSTRUMENTS & INSTRUMENTATION01/02/2014.
Type of production: Scientific paper **Category:** Science Edition - INSTRUMENTS & INSTRUMENTATION
Impact source: ISI **Journal in the top 25%:** Yes
Impact index in year of publication: 3.535 **No. of journals in the cat.:** 57
Position of publication: 2
- 86** J. Vallejos; I. Brito; A. Cárdenas; M. Bolte; J. Llanos; M. López-Rodríguez; V. Lavín; I. R. Martín. A direct white-light-emitting coordination polymers with tunable green-white photoluminescence by variation of counterion. *Inorganic chemistry communications*. 39, pp. 14 - 20. CHEMISTRY, INORGANIC & NUCLEAR02/01/2014.
Type of production: Scientific paper **Category:** CHEMISTRY, INORGANIC & NUCLEAR
Impact source: ISI **Journal in the top 25%:** No
Impact index in year of publication: 2.016 **No. of journals in the cat.:** 44
Position of publication: 16



- 87** M. H. Imanieh; I. R. Martín; J. González-Platas; B. Eftekhari Yekta; V. K. Marghussian; S. Shakhesi. Behavior of Yb³⁺ and Er³⁺ during Heat Treatment in Oxyfluoride Glass Ceramics. *Journal of Nanomaterials*. 1, pp. 171045-1 - 171045-10. MATERIALS SCIENCE, MULTIDISCIPLINARY01/01/2014.
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 1.547
Position of publication: 95
Category: MATERIALS SCIENCE, MULTIDISCIPLINARY
Journal in the top 25%: No
No. of journals in the cat.: 241
- 88** J. Llanos; R. Castillo; I. R. Martín; L. L. Martín; P. Haro-González; J. González-Platas. Energy transfer processes in Eu³⁺ doped nanocrystalline La₂TeO₆ phosphor. *Journal of Luminescence*. 145, pp. 553 - 556. Science Edition - OPTICS01/01/2014.
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2.144
Position of publication: 18
Category: Science Edition - OPTICS
Journal in the top 25%: Yes
No. of journals in the cat.: 80
- 89** L. L. Martín; S. F. León-Luis; C. Pérez-Rodríguez; I. R. Martín; U. R. Rodríguez-Mendoza; V. Lavín. High pressure tuning of whispering gallery mode resonances in a neodymium-doped glass microsphere. *Journal of Optical Society of America*. 30 - 12, pp. 3254 - 3259. 01/12/2013.
Type of production: Scientific paper
- 90** M.H. Imanieh; B.E. Yekta; V. Marghussian; S. Shakhesi; I.R. Martín. Crystallization of nano calcium fluoride in CaF₂-Al₂O₃-SiO₂ system. *Solid State Sciences*. 17, pp. 76 - 82. 2013.
Type of production: Scientific paper
Format: Journal
- 91** S.F. León-Luis; U.R. Rodríguez-Mendoza; I.R. Martín; E. Lalla; V. Lavín. Effects of Er³⁺ concentration on thermal sensitivity in optical temperature fluorotellurite glass sensors. *Sensors and Actuators, B: Chemical*. 176, pp. 1167 - 1175. 2013.
Type of production: Scientific paper
Format: Journal
- 92** C. Pérez-Rodríguez; S. Ríos; I.R. Martín. Enhanced energy upconversion and super-resolved focused spot generation in Tm³⁺-Yb³⁺ codoped glass using silica microspheres. *Journal of the Optical Society of America B: Optical Physics*. 30 - 6, pp. 1392 - 1396. 2013.
Type of production: Scientific paper
Format: Journal
- 93** M.A. Hernández-Rodríguez; M.H. Imanieh; L.L. Martín; I.R. Martín. Experimental enhancement of the photocurrent in a solar cell using upconversion process in fluoroindate glasses exciting at 1480 nm. *Solar Energy Materials and Solar Cells*. 116, pp. 171 - 175. 2013.
Type of production: Scientific paper
Format: Journal
- 94** L.L. Martín; D. Navarro-Urrios; F. Ferrarese-Lupi; C. Perez-Rodriguez; I.R. Martín; J. Montserrat; C. Dominguez; B. Garrido; N. Capuj. Laser emission in Nd³⁺ doped barium-titanium-silicate microspheres under continuous and chopped wave pumping in a non-coupled pumping scheme. *Laser Physics*. 23 - 7, pp. 075801 - 075807. 2013.
Type of production: Scientific paper
Format: Journal
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Type of production: Scientific paper
Format: Journal



- 96** P. Martín-Ramos; V. Lavín; M. Ramos Silva; I. R. Martín; F. Lahoz; P. Chamorro-Posada; J. A. Paixao; J. Martín-Gil. Novel erbium(III) complexes with 2,6-dimethyl-3,5- heptanedione and different N,N-donor ligands for ormosil and PMMA matrices doping. *Journal of Materials Chemistry C*. 1, pp. 5701 - 5710. 2013.
Type of production: Scientific paper
- 97** N. Vijaya; P. Babu; V. Venkatramu; C.K. Jayasankar; S.F. León-Luis; U.R. Rodríguez-Mendoza; I.R. Martín; V. Lavín. Optical characterization of Er³⁺-doped zinc fluorophosphate glasses for optical temperature sensors. *Sensors and Actuators, B: Chemical*. 186, pp. 156 - 164. 2013.
Type of production: Scientific paper **Format:** Journal
- 98** P. Martín-Ramos; P. S. Pereira da Silva; V. Lavín; I. R. Martín; F. Lahoz; P. Chamorro-Posada; M. Ramos Silva; J. Martín-Gil. Structure and NIR-luminescence of ytterbium(III) beta-diketonate complexes with 5-nitro-1,10-phenanthroline ancillary ligand: assessment of chain length and fluorination impact. *Dalton Transactions*. 42, pp. 13516 - 13526. 2013.
Type of production: Scientific paper
- 99** C. Pérez-Rodríguez; M.H. Imanieh; L.L. Martín; S. Ríos; I.R. Martín; B.E. Yekta. Study of the focusing effect of silica microspheres on the upconversion of Er³⁺-Yb³⁺ codoped glass ceramics. *Journal of Alloys and Compounds*. 576, pp. 363 - 368. 2013.
Type of production: Scientific paper **Format:** Journal
- 100** C. Pérez-Rodríguez; S. Ríos; I.R. Martín; L.L. Martín; P. Haro-González; D. Jaque. Upconversion emission obtained in Yb³⁺-Er³⁺ doped fluorindate glasses using silica microspheres as focusing lens. *Optics Express*. 21 - 9, pp. 10667 - 10675. 2013.
Type of production: Scientific paper **Format:** Journal
- 101** M.H. Imanieh; B.E. Yekta; V. Marghussian; I.R.M. Benenzuela; A.H. Creus; S. Shakhesi; E. Eslami. Effect of alumina content and heat treatment on microstructure and upconversion emission of Er³⁺ ions in oxyfluoride glass-ceramics. *Journal of Rare Earths*. 30 - 12, pp. 1228 - 1234. 2012.
Type of production: Scientific paper **Format:** Journal
- 102** F. Rivera-López; P. Babu; L. Jyothi; U.R. Rodríguez-Mendoza; I.R. Martín; C.K. Jayasankar; V. Lavín. Er³⁺-Yb³⁺ codoped phosphate glasses used for an efficient 1.5 μm broadband gain medium. *Optical Materials*. 34 - 8, pp. 1235 - 1240. 2012.
Type of production: Scientific paper **Format:** Journal
- 103** P. Haro-González; L. Martínez-Maestro; I.R. Martín; J. García-Solé; D. Jaque. High-sensitivity fluorescence lifetime thermal sensing based on CdTe quantum dots. *Small*. 8 - 17, pp. 2652 - 2658. Science Edition - NANOSCIENCE & NANOTECHNOLOGY 2012.
DOI: 10.1002/smll.201102736
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - NANOSCIENCE & NANOTECHNOLOGY
Impact index in year of publication: 7,823 **Journal in the top 25%:** Yes
Position of publication: 8 **No. of journals in the cat.:** 69
- 104** M.H. Imanieh; I.R. Martín; B. Eftekhari Yekta; V.K. Marghussian; S. Shakhesi. Improved cooperative emission in ytterbium-doped oxyfluoride glass-ceramics containing CaF₂ nanocrystals. *Journal of the American Ceramic Society*. 95 - 12, pp. 3827 - 3833. 2012.
Type of production: Scientific paper **Format:** Journal



- 105** D. Navarro-Urrios; M. Baselga; F.F. Lupi; L.L. Martín; C. Pérez-Rodríguez; V. Lavin; I.R. Martín; B. Garrido; N.E. Capuj. Local characterization of rare-earth-doped single microspheres by combined microtransmission and microphotoluminescence techniques. *Journal of the Optical Society of America B: Optical Physics*. 29 - 12, pp. 3293 - 3298. 2012.
Type of production: Scientific paper **Format:** Journal
- 106** S.F. León-Luis; U.R. Rodríguez-Mendoza; P. Haro-González; I.R. Martín; V. Lavín. Role of the host matrix on the thermal sensitivity of Er³⁺ luminescence in optical temperature sensors. *Sensors and Actuators, B: Chemical*. 174, pp. 176 - 186. 2012.
Type of production: Scientific paper **Format:** Journal
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- 108** L. L. Martin; I. R. Martin; P. Haro Gonzalez. Transfer and backtransfer processes in Yb³⁺-Er³⁺ codoped Strontium Barium Niobate glass-ceramics. *JOURNAL OF LUMINESCENCE*. 131 - 12, pp. 2446 - 2450. 05/12/2011. ISSN 0022-2313
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Type of production: Scientific paper **Format:** Journal
- 110** P. Haro Gonzalez; L. L. Martin; C. Perez Rodriguez; I. R. Martin; A. Mujica. Optical study of the effect of the impurity content on the ferroelectric properties of Er³⁺ doped SBN glass-ceramic samples. *JOURNAL OF APPLIED PHYSICS*. 110 - 8, pp. 84113-1 - 84113-4. 15/10/2011. ISSN 0021-8979
Type of production: Scientific paper **Format:** Journal
- 111** P. Haro Gonzalez; S. F. Leon Luis; S. Gonzalez Perez; I. R. Martin. Analysis of Er³⁺ and Ho³⁺ codoped fluorindate glasses as wide range temperature sensor. *MATERIALS RESEARCH BULLETIN*. 46 - 7, pp. 1051 - 1054. 15/07/2011. ISSN 0025-5408
Type of production: Scientific paper **Format:** Journal
- 112** P. Haro Gonzalez; I. R. Martin; F. Lahoz; N. E. Capuj. Optical gain by upconversion in Tm-Yb oxyfluoride glass ceramic. *APPLIED PHYSICS B-LASERS AND OPTICS*. 104 - 1, pp. 237 - 240. 15/07/2011. ISSN 0946-2171
Type of production: Scientific paper **Format:** Journal
- 113** F. Lahoz; C. Perez Rodriguez; S. E. Hernandez; I. R. Martin; V. Lavin; U. R. Rodriguez Mendoza. Upconversion mechanisms in rare-earth doped glasses to improve the efficiency of silicon solar cells. *SOLAR ENERGY MATERIALS AND SOLAR CELLS*. 95 - 7, pp. 1671 - 1677. Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY 15/07/2011. ISSN 0927-0248
DOI: 10.1016/j.solmat.2011.01.027
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY
Impact index in year of publication: 4,542 **Journal in the top 25%:** Yes
Position of publication: 26 **No. of journals in the cat.:** 230



- 114** P. Haro Gonzalez; L. L. Martin; I. R. Martin; M. Berkowski; W. Ryba Romanowski. Optical amplification properties of Dy³⁺-doped Gd₂SiO₄, Lu₂SiO₅ and YAl₃(BO₃)₄ single crystals. APPLIED PHYSICS B-LASERS AND OPTICS. 103 - 3, pp. 597 - 602. 15/06/2011. ISSN 0946-2171
Type of production: Scientific paper **Format:** Journal
- 115** P. Haro Gonzalez; I. R. Martin; Alberto Hernandez Creus. Nanocrystals formation on Ho³⁺ doped strontium barium niobate glass. JOURNAL OF LUMINESCENCE. 131 - 4, pp. 657 - 661. 15/04/2011. ISSN 0022-2313
Type of production: Scientific paper **Format:** Journal
- 116** P. Haro Gonzalez; I. R. Martin; L. L. Martin; Sergio F. Leon Luis; C. Perez Rodriguez; V. Lavin. Characterization of Er³⁺ and Nd³⁺ doped Strontium Barium Niobate glass ceramic as temperature sensors. OPTICAL MATERIALS. 33 - 5, pp. 742 - 745. 15/03/2011. ISSN 0925-3467
Type of production: Scientific paper **Format:** Journal
- 117** L. L. Martin; P. Haro Gonzalez; I. R. Martin. Optical properties of transparent Dy³⁺ doped Ba₂TiSi₂O₈ glass ceramic. OPTICAL MATERIALS. 33 - 5, pp. 738 - 741. 15/03/2011. ISSN 0925-3467
Type of production: Scientific paper **Format:** Journal
- 118** L. L. Martin; P. Haro Gonzalez; I. R. Martin; D. Navarro Urrios; D. Alonso; C. Perez Rodriguez; D. Jaque; N. E. Capuj. Whispering-gallery modes in glass microspheres: optimization of pumping in a modified confocal microscope. OPTICS LETTERS. 36 - 5, pp. 615 - 617. 01/03/2011. ISSN 0146-9592
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Type of production: Scientific paper **Format:** Journal
- 120** L. L. Martin; P. Haro Gonzalez; I. R. Martin; D. Puerto; J. Solis; J. M. Caceres; N. E. Capuj. Local devitrification of Dy³⁺ doped Ba₂TiSi₂O₈ glass by laser irradiation. OPTICAL MATERIALS. 33 - 2, pp. 186 - 190. 15/12/2010. ISSN 0925-3467
Type of production: Scientific paper **Format:** Journal
- 121** P. Haro Gonzalez; L. L. Martin; I. R. Martin; G. Grazyna Dominiak Dzik; W. Ryba Romanowski. Pump and probe measurements of optical amplification at 584 nm in dysprosium doped lithium niobate crystal. OPTICAL MATERIALS. 33 - 2, pp. 196 - 199. 15/12/2010. ISSN 0925-3467
Type of production: Scientific paper **Format:** Journal
- 122** S. Gonzalez Perez; I. R. Martin; D. Jaque; P. Haro Gonzalez; N. Capuj. Control of the local devitrification on oxyfluoride glass doped with Er³⁺ ions under diode laser irradiation. JOURNAL OF APPLIED PHYSICS. 108 - 10, pp. 103103-1 - 103103-5. 15/11/2010. ISSN 0021-8979
Type of production: Scientific paper **Format:** Journal
- 123** P. Haro Gonzalez; I. R. Martin; L. L. Martin; D. Kowalska; J. M. Caceres. Crystallization effect on Tm³⁺-Yb³⁺ codoped SBN glass ceramics. OPTICAL MATERIALS. 32 - 10, pp. 1385 - 1388. 15/08/2010. ISSN 0925-3467
Type of production: Scientific paper **Format:** Journal
- 124** P. Haro Gonzalez; L. L. Martin; S. Gonzalez Perez; I. R. Martin. Formation of Nd³⁺ doped Strontium Barium Niobate nanocrystals by two different methods. OPTICAL MATERIALS. 32 - 10, pp. 1389 - 1392. 15/08/2010. ISSN 0925-3467
Type of production: Scientific paper **Format:** Journal



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Type of production: Scientific paper **Format:** Journal
- 126** D. Kowalska; P. Haro Gonzalez; I. R. Martin; J. M. Caceres. Analysis of the optical properties of Er³⁺-doped strontium barium niobate nanocrystals using time-resolved laser spectroscopy. APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING. 99 - 4, pp. 771 - 776. 15/06/2010. ISSN 0947-8396
Type of production: Scientific paper **Format:** Journal
- 127** P. Haro Gonzalez; F. Rivera Lopez; I. R. Martin; A. D. Lozano Gorrin; C. Gonzalez Silgo; V. M. Sanchez Fajardo; C. Guzman Afonso; M. E. Torres. Second harmonic generation in Er³⁺-Yb³⁺:YBO₃. MATERIALS LETTERS. 64 - 6, pp. 650 - 653. 31/03/2010. ISSN 0167-577X
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- 128** V. Venkatramu; P. Babu; I. R. Martin; V. Lavin; Juan E. Munoz Santiuste; Th. Troester; W. Sievers; G. Wortmann; C. K. Jayasankar. Role of the local structure and the energy trap centers in the quenching of luminescence of the Tb³⁺ ions in fluoroborate glasses: A high pressure study. JOURNAL OF CHEMICAL PHYSICS. 132 - 11, pp. 114505-1 - 114505-11. 21/03/2010. ISSN 0021-9606
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- 130** P. Haro Gonzalez; I. R. Martin; Alberto Hernandez Creus. Nanocrystals distribution inside the writing lines in a glass matrix using Argon laser irradiation. OPTICS EXPRESS. 18 - 2, pp. 582 - 590. 18/01/2010. ISSN 1094-4087
Type of production: Scientific paper **Format:** Journal
- 131** P. Haro Gonzalez; M. Bettinelli; N. E. Capuj; F. Lahoz; I. R. Martin; E. Cavalli; S. Gonzalez Perez. Optical gain in Er³⁺-doped transparent LuVO₄ crystal at 850 nm. OPTICAL MATERIALS. 32 - 3, pp. 475 - 478. 18/01/2010. ISSN 0925-3467
Type of production: Scientific paper **Format:** Journal
- 132** P. Haro Gonzalez; I. R. Martin; F. Lahoz; S. Gonzalez Perez; E. Cavalli; N. E. Capuj. Optical amplification in Er³⁺-doped transparent Ba₂NaNb₅O₁₅ single crystal at 850 nm. JOURNAL OF APPLIED PHYSICS. 106 - 11, pp. 113108-1 - 113108-5. 01/12/2009. ISSN 0021-8979
Type of production: Scientific paper **Format:** Journal
- 133** D. Navarro Urrios; M. Ghulinyan; P. Bettotti; E. Rigo; C. J. Oton; N. E. Capuj; F. Lahoz; I. R. Martin; L. Pavesi. Polymeric waveguides using oxidized porous silicon cladding for optical amplification. OPTICAL MATERIALS. 31 - 10, pp. 1488 - 1491. 01/08/2009. ISSN 0925-3467
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- 135** P. Haro Gonzalez; F. Lahoz; I. R. Martin; S. Gonzalez Perez; F. Rivera; N. E. Capuj. Optical amplification in Er³⁺-doped fluorindate glass at 840 nm and 1550 nm. OPTICAL MATERIALS. 31 - 9, pp. 1370 - 1372. 01/07/2009. ISSN 0925-3467
Type of production: Scientific paper **Format:** Journal



- 136** S. Gonzalez Perez; I. R. Martin; D. Jaque; P. Haro Gonzalez. Growth of Nanocrystals in a Nd³⁺-Yb³⁺ Codoped Oxyfluoride Glass by Laser Irradiation. JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY. 9 - 6, pp. 3771 - 3774. 01/06/2009. ISSN 1533-4880
Type of production: Scientific paper **Format:** Journal
- 137** S. Gonzalez Perez; I. R. Martin; F. Lahoz; P. Haro Gonzalez; J. Herreros. Local crystallization in an oxyfluoride glass doped with Er(3+) ions using a continuous argon laser. APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING. 93 - 4, pp. 983 - 986. 01/12/2008. ISSN 0947-8396
Type of production: Scientific paper **Format:** Journal
- 138** P. Haro Gonzalez; I. R. Martin; F. Lahoz; S. Gonzalez Perez; N. E. Capuj; D. Jaque. Localized desvitrification in Er³⁺-doped strontium barium niobate glass by laser irradiation. APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING. 93 - 4, pp. 977 - 981. 01/12/2008. ISSN 0947-8396
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- 139** F. Lahoz; P. Haro Gonzalez; F. Rivera Lopez; S. Gonzalez Perez; I. R. Martin; N. E. Capuj; C. N. Afonso; J. Gonzalo; J. Fernandez; R. Balda. Upconversion emission in Er³⁺-doped lead niobium germanate thin-film glasses produced by pulsed laser deposition. APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING. 93 - 3, pp. 621 - 625. 01/11/2008. ISSN 0947-8396
Type of production: Scientific paper **Format:** Journal
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Type of production: Scientific paper **Format:** Journal
- 141** P. Haro Gonzalez; I. R. Martin; S. Gonzalez Perez; M. Liu; S. W. Wang; N. Capuj; F. Lahoz. Increase of the blue upconversion emission in YAG : Tm³⁺ nanopowders by codoping with Yb³⁺ ions. JOURNAL OF LUMINESCENCE. 128 - 5-6, pp. 924 - 926. 01/07/2008. ISSN 0022-2313
Type of production: Scientific paper **Format:** Journal
- 142** P. Haro Gonzalez; I. R. Martin; E. Arbelo Jorge; S. Gonzalez Perez; J. M. Caceres; P. Nunez. Laser irradiation in Nd(3+) doped strontium barium niobate glass. JOURNAL OF APPLIED PHYSICS. 104 - 1, pp. 013112-1 - 013112-5. 01/07/2008. ISSN 0021-8979
Type of production: Scientific paper **Format:** Journal
- 143** P. Haro Gonzalez; F. Lahoz; J. Gonzalez Platas; J. M. Caceres; S. Gonzalez Perez; D. Marrero Lopez; N. Capuj; I. R. Martin. Optical properties of Er³⁺-doped strontium barium niobate nanocrystals obtained by thermal treatment in glass. JOURNAL OF LUMINESCENCE. 128 - 5-6, pp. 908 - 910. 01/07/2008. ISSN 0022-2313
Type of production: Scientific paper **Format:** Journal
- 144** M. E. Torres; A. A. Kaminskii; C. Gonzalez Silgo; J. Gonzalez Platas; D. Jaque; A. Rodenas; I. R. Martin; V. Lavin. Dielectric anomalies in Nd³⁺ doped Ba₂NaNb₅O₁₅ laser crystal. JOURNAL OF ALLOYS AND COMPOUNDS. 451 - 1-2, pp. 198 - 200. 28/02/2008. ISSN 0925-8388
Type of production: Scientific paper **Format:** Journal
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Authors (by signature order): V. Venkatramu; P. Venkatalakshamma; I. R. Martín; V. Venkata Krishnaiah; V. Lavín **Type of participation:** Participatory - poster
End date: 25/06/2019,
En: National Conference in functionality of Advanced Materias 2019 (NCFAM 2019). Andhra Pradesh, pp. 24/06/2019. (India): Committee NCFAM,

- 2** **Title of the work:** Fluorescence Intensity Ratio and Whispering Gallery Mode techniques in optical temperature sensors - Comparative study.
Authors (by signature order): F. Paz-Buclatin; S. Ríos; I. R. Martín **Type of participation:** 'Participatory - poster
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Authors (by signature order): K. Soler-Carracedo; F. Lahoz; I. R. Martín; V. Mesa-Infante; T. González-Hernández; G. Cuesta; A. Acebes; J. Gil-Rostra; F. Yubero; A. R. González-Elipe
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Authors (by signature order): R. Reddappa; P. Babu; I. R. Martín; L. Lakshmi Devi; V. Venkatramu; V. Lavín; C. K. Jayasankar
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- 5** **Title of the work:** Microscopía de fluorescencia de huesos quemados de animales: aplicaciones en la micromorfología arqueológica
Authors (by signature order): G. Lambrecht; I. R. Martín; C. Rodríguez de Vera; C. Mallo
End date: 26/10/2018,
En: XXII Semana Científica Antonio González. La Laguna, pp. 23/10/2018. (Spain): Comité XXII (IUBO),
- 6** **Title of the work:** Fluorescent optical Microresonators for Optofluidic Sensor Applications
Authors (by signature order): F. Lahoz (*); I. R. Martín; K. Soler-Carracedo; J. Gil-Rostra; F. Yubero; A. R. González-Elipe
End date: 12/10/2018,
En: Inter-Photonics 2018. Antalya, pp. 08/10/2018. (Turkey): Committee of the Photonics Research, talk
- 7** **Title of the work:** Optical Sensing in biological tissue based on resonant microcavities
Authors (by signature order): K. Soler-Carracedo (*); F. Lahoz; I. R. Martín; V. Mesa-Infante; T. González-Hernández; G. Cuesto; A. Acebes; J. Gil-Rostra; F. Yubero; A. R. González-Elipe
End date: 12/10/2018,
En: Inter-Photonics 2018. Antalya, pp. 08/10/2018. (Turkey): Committee of the Photonics Research, oral communication
- 8** **Title of the work:** A crystal field and luminescence analysis of Nd³⁺ in YAIO₃ nanocrystal perovskite under high pressure conditions
Authors (by signature order): M. A. Hernández-Rodríguez; J. E. Muñoz-Santiuste; V. Lavín; A. D. Lozano-Gorrín; P. Rodríguez-Hernández; A. Muñoz; I.R. Martín; U. R. Rodríguez-Mendoza
End date: 07/09/2018,
Type of participation: 'Participatory - poster



En: 56th European High Pressure Research Group (EHPRG) Meeting. Aveiro, pp. 02/09/2018. (Portugal): Universidad de Aveiro,

- 9** **Title of the work:** Analysis of the pressure evolution of the anti-stokes fluorescence in Nd³⁺ in YAIO₃ nanocrystal perovskite
Authors (by signature order): M. A. Hernández-Rodríguez; U. R. Rodríguez-Mendoza; V. Lavín; J. E. Muñoz-Santiuste; I.R. Martín; A. D. Lozano-Gorrín
Type of participation: 'Participatory - poster'
End date: 07/09/2018,
En: 56th European High Pressure Research Group (EHPRG) Meeting. Aveiro, pp. 02/09/2018. (Portugal): Universidad de Aveiro,
- 10** **Title of the work:** Analysis of the structural, Vibrational, and elastic properties of YAIO₃ nanocrystal perovskite under high pressure conditions
Authors (by signature order): M. A. Hernández-Rodríguez; V. Monteseuro; A. D. Lozano-Gorrín; F. J. Manjón; J. González-Platas; P. Rodríguez-Hernández; A. Muñoz; V. Lavín; I.R. Martín; U. R. Rodríguez-Mendoza
Type of participation: 'Participatory - poster'
End date: 07/09/2018,
En: 56th European High Pressure Research Group (EHPRG) Meeting. Aveiro, pp. 02/09/2018. (Portugal): Universidad de Aveiro,
- 11** **Title of the work:** Optical characterization of Sm³⁺ ion in (LuGd)SiO₅ crystal under extreme conditions of pressure and /or temperature
Authors (by signature order): V. Lavín; M. A. Díaz-Suárez; W. Ryba-Romanowski; A. Strzep; M. Berkowski; P. Rodríguez-Hernández; A. Muñoz; J. E. Muñoz-Santiuste; M. A. Hernández-Rodríguez; J. González-Platas; I.R. Martín; U. R. Rodríguez-Mendoza
Type of participation: 'Participatory - poster'
End date: 07/09/2018,
En: 56th European High Pressure Research Group (EHPRG) Meeting. Aveiro, pp. 02/09/2018. (Portugal): Universidad de Aveiro,
- 12** **Title of the work:** Láminas luminiscentes como protección y mejora de la eficiencia de dispositivos fotovoltaicos
Authors (by signature order): B. Gil-Hernández; B. González-Díaz; I. R. Martín; C. Hernández-Rodríguez; R. Guerrero Lemus; J. Sanchiz
Type of participation: 'Participatory - poster'
End date: 20/06/2018,
En: QIES 2018. Tenerife, pp. 17/06/2018. (Spain): Comité del grupo especializado en Química Inorgánica y Química de Estado Sólido,
- 13** **Title of the work:** Transformación de perovskita a granate a lo largo de la serie de lantánidos en nanoestructuras de aluminatos
Authors (by signature order): A. D. Lozano-Gorrín; M. A. Hernández-Rodríguez; V. Monteseuro; U. R. Rodríguez-Mendoza; I. R. Martín; V. Lavín
Type of participation: 'Participatory - poster'
End date: 20/06/2018,
En: QIES 2018. Tenerife, pp. 17/06/2018. (Spain): Comité del grupo especializado en Química Inorgánica y Química de Estado Sólido,



- 14 Title of the work:** Rare-earth doped optical fibers in a Fabry-Perot microcavity for sensor applications
Authors (by signature order): F. Lahoz(*); I. R. Martín; K. Soler-Carracedo; J. Cáceres; J. Gil-Rostra; F. Yubero; A. R. González-Elipe
Type of participation: Participatory - oral communication
End date: 11/05/2018,
En: 1st International Conference on Optics, Photonics and Lasers (OPAL'2018). Barcelona, pp. 09/05/2018. (Spain): OPAL Committee,
- 15 Title of the work:** Looking for new Materials with Optical Applications (Buscando Nuevos Materiales con Aplicaciones Ópticas)
Authors (by signature order): I. R. Martín (*)
Type of participation: Participatory - invited/keynote talk
End date: 20/04/2018,
En: Encuentro IPNA. La Laguna, pp. 20/04/2018. (Spain): Comité del Instituto de Productos Naturales y Agrobiología,
- 16 Title of the work:** Control of laser induced temperature increase in bacteria through Green Fluorescent Protein nanothermometers
Authors (by signature order): F. Lahoz (*); I. R. Martín; D. Walo; M. V. Bollo; R. Freire; J. Gil-Rostra; F. Yubero; A. R. González-Elipe
Type of participation: Participatory - invited/keynote talk
End date: 17/11/2017,
En: Spectral shapping for biomedical and energy applications (Shif 2017). Tenerife, pp. 13/11/2017. (Spain): Shift Committee,
- 17 Title of the work:** Nanoperovskite doped with Yb³⁺ and Tm³⁺ used as optical upconversion temperature sensor
Authors (by signature order): L. García-Rodríguez; L. de Sousa-Vieira; M. A. Hernández-Rodríguez; A. D. Lozano-Gorrín; V. Lavín; U. R. Rodríguez-Mendoza; J. González-Platas; S. Ríos; I. R. Martín
Type of participation: 'Participatory - poster
End date: 17/11/2017,
En: Spectral shapping for biomedical and energy applications (Shif 2017). Tenerife, pp. 13/11/2017. (Spain): Shift Committee,
- 18 Title of the work:** Nanoperovskites doped with RE³⁺ ions as optical temperature sensors working in the near infrared region
Authors (by signature order): M. A. Hernández-Rodríguez; A. D. Lozano-Gorrín; I. R. Martín; U. R. Rodríguez-Mendoza; V. Lavín
Type of participation: 'Participatory - poster
End date: 17/11/2017,
En: Spectral shapping for biomedical and energy applications (Shif 2017). Tenerife, pp. 13/11/2017. (Spain): Shift Committee,
- 19 Title of the work:** Nanothermometry and nanoheating applied to biomedicine. Near-infrared emitting rare-earth doped nano-garnets
Authors (by signature order): A. D. Lozano-Gorrín; M. A. Hernández-Rodríguez; U. R. Rodríguez-Mendoza; I. R. Martín; V. Lavín
Type of participation: 'Participatory - poster
End date: 17/11/2017,



En: Spectral shapping for biomedical and energy applications (Shif 2017). Tenerife, pp. 13/11/2017. (Spain): Shift Committee,

20 Title of the work: Whispering gallery modes in a holmium doped glass microsphere: temperature sensor in the second biological window

Authors (by signature order): L. de Sousa-Vieira; L. García-Rodríguez; S. Ríos; I. R. Martín

End date: 17/11/2017,

En: Spectral shapping for biomedical and energy applications (Shif 2017). Tenerife, pp. 13/11/2017. (Spain): Shift Committee,

21 Title of the work: Near infrared to visible photon up-conversion in Er³⁺/Yb³⁺ doped BaTiO₃. Structural and Judd-Ofelt properties

Authors (by signature order): J. LLanos; M. Vega; P. Alemany; I. R. Martín

End date: 01/09/2017,

En: 18th International Conference on Luminescence (ICL). João Pessoa, pp. 27/08/2017. (Brazil): ICL Committee,

22 Title of the work: Ln(III) Complexes as Single-Ion Magnets that light can disturb

Authors (by signature order): M. Susano; J. Rybusinski; P. Martín-Ramos; A. Gardias; J. Szczytko; J. Martín-Gil; F. Lahoz; V. Lavín; E. Eusebio; L. Pereira; I. R. Martín

End date: 06/07/2017,

En: Multiscale phenomena in molecular matter. Krakow, pp. 03/07/2017. (Poland): Polish Academy of Sciences,

23 Title of the work: On a Nd(III)-based solution-processed NIR-OLED for biomedical and sensor applications

Authors (by signature order): M. Susano; P. Martín-Ramos; M. Carmen Coya-Párraga; Ángel L. Álvarez; I. R. Martín; J. Martín-Gil; M. Ramos Silva

End date: 22/02/2017,

En: Printed and Flexible electronics. London, pp. 21/02/2017. (United Kingdom): GEPF17,

24 Title of the work: Broadband 1.20 μm emission in Tm³⁺-doped oxyfluoride glasses for fiber amplifiers

Authors (by signature order): C. S. Dwaraka; P. Babu; I. R. Martín; V. Venkatramu; V. Lavín; C. J. Jayasankar

End date: 23/12/2016,

En: 25Th DAE-BRNS National Laser Symposium. Bhubaneswar, pp. 20/12/2016. (India): KIIT University,

25 Title of the work: Concentration dependent near infrared and cooperative luminescence of Yb³⁺ in Lu₃Sc₂GaO₁₂ nano-garnets

Authors (by signature order): R. Praveena; P. Venkata; V. Sravani; V. Venkatramu; I. R. Martín; V. Lavín; C. J. Jayasankar

End date: 23/12/2016,

En: 25Th DAE-BRNS National Laser Symposium. Bhubaneswar, pp. 20/12/2016. (India): KIIT University,



- 26** **Title of the work:** Nanoperovskites doped with Nd³⁺ or Ho³⁺ as Optical Thermal Sensor in the Near Infrared
Authors (by signature order): M. A. Hernández-Rodríguez (*); A. D. Lozano-Gorrín; V. Lavín; I. R. Martín; U. R. Rodríguez-Mendoza
Type of participation: Participatory - oral communication
End date: 27/10/2016,
En: Materials Science and Technology 2016. Salt Lake City, pp. 23/10/2016. (United States of America): MS&T16 Committee,
- 27** **Title of the work:** Near-infrared emitting rare-earth doped garnets for nanothermometry and nanoheating applications in biomedicine
Authors (by signature order): V. Lavín; U. R. Rodríguez-Mendoza; I. R. Martín; A. D. Lozano-Gorrín (*)
Type of participation: Participatory - oral communication
End date: 27/10/2016,
En: Materials Science and Technology 2016. Salt Lake City, pp. 23/10/2016. (United States of America): MS&T16 Committee,
- 28** **Title of the work:** Stable and portable optofluidic laser device for sensor application
Authors (by signature order): F. Lahoz (*); I. R. Martín; J. Gil-Rostra; M. Oliva-Ramírez; F. Yubero; A. R. González-Felipe
Type of participation: Participatory - oral communication
End date: 23/09/2016,
En: EMN Meeting on Photonics 2016. Barcelona, pp. 19/09/2016. (Spain): EMN Committee,
- 29** **Title of the work:** Sistema de comunicación OFDM para entornos VLC basado en FPGA
Authors (by signature order): M. F. Guerra; O. González; I. R. Martín; S. Rodríguez; A. Ayala; B. Rodríguez
Type of participation: Participatory - oral communication
End date: 07/09/2016,
En: XXVI Simposium Nacional de la Union Científica Internacional de Radio. Madrid, pp. 05/09/2016. (Spain): URSI Committee,
- 30** **Title of the work:** Characterization of Er³⁺-doped oxyfluoride glasses for optical sensor
Authors (by signature order): P. Babu; I. R. Martín; C. S. Dwaraka; N. Vijaya; V. Lavín; C. J. Jayasankar
Type of participation: Participatory - poster
End date: 29/07/2016,
En: Sustainable Energy Technologies for Smart and Clean Cities. Tirupati, pp. 27/07/2016. (India): SETS&CC-2016 committee,
- 31** **Title of the work:** High Pressure Stokes and Upconverted Emission of Nd³⁺ Ions in YAlO₃ Perovskites Nano-crystals
Authors (by signature order): U. R. Rodríguez; M. A. Hernández-Rodríguez; I. R. Martín; A. D. Lozano-Gorrín; V. Lavín
Type of participation: Participatory - poster
End date: 10/06/2016,
En: Rare Earths 2016. Sapporo, pp. 05/06/2016. (Japan): Rare Earths Committee,
- 32** **Title of the work:** Timing Synchronization for OFMD-based Visible Light Communication System
Authors (by signature order): M. F. Guerra; O. González; S. Rodríguez; I. R. Martín
Type of participation: Participatory - oral communication
End date: 20/04/2016,



En: Wireless Telecommunication Symposium. Londres, pp. 18/04/2016. (United Kingdom): WTS Program Committee,

- 33 Title of the work:** Erbium (III) beta-diketonates as multifunctional materials for NIR-OLEDs and Single-Ion-Magnets
Authors (by signature order): P. Martín-Ramos(*); M. Ramos-Silva; J. T. Coutinho; L. C. J. Pereira; P. S. Pereira da Silva; V. Lavín; I. R. Martín; F. Lahoz; P. Chamorro-Posada; M. Ermelinda S. Eusebio; C. Coya; A. L. Álvarez; Carlos Zaldo; S. Álvarez-García; A. M. Matos Beja; J. A. Paixao; J. Martín-Gil
Type of participation: Participatory - oral communication
End date: 10/12/2015,
En: Ist International Caparica Christmas Conference on Translational Chemistry. Caparica-Almada, pp. 07/12/2015. (Portugal): Proteomass Scientific Society,
- 34 Title of the work:** Aluminate-based nanostructures. Stablishing a garnet-to-perovskite type border in the lanthanide series
Authors (by signature order): A. D. Lozano-Gorrín; M. A. Hernández-Rodríguez; V. Monteseuro; U. R. Rodríguez-Mendoza; I. R. Martín; V. Lavín (*)
Type of participation: Participatory - oral communication
End date: 09/09/2015,
En: International Conference on f-Elements (ICFE 9). Oxford, pp. 06/09/2015. (United Kingdom): Oxford University,
- 35 Title of the work:** Carbon dots as temperature nanosensors in the physiological range
Authors (by signature order): I. R. Martín; M. A. Hernández-Rodríguez; K. Soler-Carracedo; M. M. Afonso; J. A. Palenzuela
Type of participation: 'Participatory - poster
End date: 09/09/2015,
En: International Conference on f-Elements (ICFE 9). Oxford, pp. 06/09/2015. (United Kingdom): Oxford University,
- 36 Title of the work:** Chemical and hydrostatic pressure effects on the spectroscopic properties of Nd³⁺-doped gallium nano-garnets
Authors (by signature order): V. Monteseuro; K. Yamada; A. Yoshikawa; J. E. Muñoz-Santiuste; U. R. Rodríguez-Mendoza; A. D. Lozano-Gorrín; M. Rathaiah; I. R. Martín; V. Venkatramu; V. Lavín (*)
Type of participation: Participatory - oral communication
End date: 09/09/2015,
En: International Conference on f-Elements (ICFE 9). Oxford, pp. 06/09/2015. (United Kingdom): Oxford University,
- 37 Title of the work:** Spectroscopic properties of Nd³⁺ ions in YAIO₃ nano-perovskites
Authors (by signature order): M. A. Hernández-Rodríguez; A. D. Lozano-Gorrín; V. Lavín; I. R. Martín; U. R. Rodríguez-Mendoza
Type of participation: 'Participatory - poster
End date: 09/09/2015,
En: International Conference on f-Elements (ICFE 9). Oxford, pp. 06/09/2015. (United Kingdom): Oxford University,
- 38 Title of the work:** Temperature control through whispering gallery modes in microspheres
Authors (by signature order): I. R. Martín; V. N. Sigaev; V. I. Savinkov; G. Yu Shakhgildian;
Type of participation: 'Participatory - poster



V. R. Acosta-Lopez; K. Soler-Carracedo; M. A. Hernández-Rodríguez; S. Ríos

End date: 09/09/2015,

En: International Conference on f-Elements (ICFE 9). Oxford, pp. 06/09/2015. (United Kingdom): Oxford University,

39 Title of the work: Sistema de comunicación WHTS-SDMA-OFDM para entornos VLC con múltiples usuarios

Authors (by signature order): O. B. González (*); M. F. Guerra; I. R. Martín; F. A. Delgado; S. Rodríguez; A. J. Ayala

End date: 04/09/2015,

En: XXX Simposium Nacional de la Unión Científica Internacional de Radio. Pamplona, pp. 02/09/2015. (Spain): Universidad Pública de Navarra, University.

40 Title of the work: Técnica de sincronización Temporal para sistemas OFDM en entornos VLC

Authors (by signature order): M. F. Guerra (*); O. B. González; I. R. Martín

End date: 04/09/2015,

En: XXX Simposium Nacional de la Unión Científica Internacional de Radio. Pamplona, pp. 02/09/2015. (Spain): Universidad Pública de Navarra, University.

41 Title of the work: SYNTHESIS AND CHARACTERIZATION OPTICAL PROPERTIES OF Bi₄Ti₃O₁₂:Er NANOPARTICLES

Authors (by signature order): S. Fuentes; P. Muñoz; J. Llanos; I. R. Martín

End date: 04/09/2015,

En: The 4TH International Conference on the Physics of Optical Materials and Devices (ICOM 2015). Budva, Montenegro, pp. 31/08/2015. (Serbia): ICOM committee,

42 Title of the work: UP-CONVERSION LUMINESCENCE, RAMAN AND THERMAL STABILITY OF BaTiO₃:Er³⁺

Authors (by signature order): M. Vega; I. R. Martín; S. Fuentes; J. Llanos (*)

End date: 04/09/2015,

En: The 4TH International Conference on the Physics of Optical Materials and Devices (ICOM 2015). Budva, Montenegro, pp. 31/08/2015. (Serbia): ICOM committee,

43 Title of the work: New erbium(III) beta-diketone complexes as near-infrared emitters

Authors (by signature order): M. Susano; M. Ramos Silva; P. Martín-Ramos; J. T. Coutinho; L. C. J. Pereira; P. S. Pereira da Silva; V. Lavín; I. R. Martín; F. Lahoz; P. Chamorro-Posada; M. Ermelinda S. Eusebio; C. Coya; A. L. Álvarez; Carlos Zaldo; S. Álvarez-García; A. M. Matos Beja; J. A. Paixao; J. Martín-Gil

End date: 03/07/2015,

En: XXIX Encontro Nacional da Sociedade Portuguesa de Química. Coimbra, pp. 01/07/2015. (Portugal): Sociedade Portuguesa de Química,

44 Title of the work: Structural studies of rare-earth doped and undoped nanocrystalline YAIO₃ perovskite

Authors (by signature order): A. D. Lozano-Gorriñ; M. A. Hernandez-Rodríguez; Virginia Monteseuro;



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I. R. Martín; U. R. Rodríguez-Mendoza; P. Hernández-Rodríguez; A. Muñoz; V. Lavín

End date: 27/06/2016,

En: IV Meeting of the Italian and Spanish Crystallographic Associations. Puerto de la Cruz, pp. 21/06/2015. (Spain): Universidad de La Laguna,

- 45 Title of the work:** Yb³⁺-doped TeO₂-WO₃-ZeO₂ glasses for high power laser applications
Authors (by signature order): G. Venkataiah; **Type of participation:** 'Participatory - poster
P. Babu; I. R. Martín; V. Lavín; K. Suresh; C. K. Jayasankar

Legal deposit: India

End date: 25/04/2015,

En: International Conference on Science, Technology and Applications of Rare Earths. Thiruvananthapuram, pp. 23/04/2015. Rare Earths Association of India,

- 46 Title of the work:** Slow Magnetic Relaxation Mechanisms in Erbium SIMs
Authors (by signature order): J. T. Coutinho; L. C. J. Pereira; M. R. Silva; P. Martín-Ramos; V. Lavín; I. R. Martín; P. S. Pereira Silva; J. Martín-Gil

End date: 12/04/2015,

En: European f-Element Chemistry Research Conference. Lisboa, pp. 11/04/2015. (Portugal): COST Action CM1006,

- 47 Title of the work:** Enhancement of near infrared emissions in Ho³⁺-Yb³⁺ co-doped transparent oxyfluoride nanocrystalline glass-ceramics

Authors (by signature order): P. Babu; I. R. Martín; **Type of participation:** 'Participatory - poster
Hyo Jin Seo; V. Venkatramu; C. K. Jayasankar; V. Lavín; V. Lavin

Legal deposit: India

End date: 13/12/2014,

En: International Seminar on Glasses and other Functional Materials. Nagarjuna Nagar, Guntur, pp. 11/12/2014. Department of Physics, Acharya Nagarjuna University,

- 48 Title of the work:** Optimizing white light luminescence in Dy³⁺-doped Lu₃Ga₅O₁₂ nano-garnets
Authors (by signature order): P. Haritha; I. R. Martín; K. Linganna; V. Monteseuro; P. Babu; S. F. León-Luis; C. K. Jayasankar; U. R. Rodríguez-Mendoza; V. Lavin; V. Venkatramu

Legal deposit: India

End date: 13/12/2014,

En: International Seminar on Glasses and other Functional Materials. Nagarjuna Nagar, Guntur, pp. 11/12/2014. Department of Physics, Acharya Nagarjuna University,

- 49 Title of the work:** Blue-green cooperative luminescence in Yb³⁺-doped tellurite glass
Authors (by signature order): P. Babu; I. R. Martín; **Type of participation:** 'Participatory - poster
G. Venkataiah; V. Venkatramu; C. K. Jayasankar; V. Lavin

Legal deposit: India

End date: 06/12/2014,

En: DAE-BRNS National Laser Symposium (NLS-23). Tirupati, pp. 03/12/2014. Department of Physics, Sri Venkateswara University,



- 50** **Title of the work:** Improving the efficiency of photovoltaic solar cells using optically active materials
Authors (by signature order): I. R. Martín (*) **Type of participation:** Participatory - invited/keynote talk
End date: 12/10/2014,
En: 1er Taller de Conversión de Energía solar y Térmica en sistemas nanoestructurados. Antofagasta, pp. 05/10/2014. (Chile): Universidad Católica del Norte,
- 51** **Title of the work:** Diseño de un monocromador de alta resolución para el análisis de señales ópticas
Publisher: Editorial Universitat Politècnica de València
Authors (by signature order): M. F. Guerra Medina; **Type of participation:** 'Participatory - poster
F. Rivera López; L. L. Martín; V. Lavín; I. R. Martín;
N. E. Capuj; O. González Hernández
Legal deposit: ISBN 978-84-9048-264-3
End date: 05/09/2014,
En: XXIX Simposium Nacional de la Unión Científica Internacional de Radio. Valencia, pp. 03/09/2014. (Spain): Universitat Politècnica de Valencia,
- 52** **Title of the work:** Applications of the laser spectroscopy (Aplicaciones de la Espectroscopía Láser)
Authors (by signature order): I. R. Martín (*) **Type of participation:** Participatory - invited/keynote talk
En: Sesión Académica de la Academia Canaria de Ciencias. La Laguna, pp. 05/06/2014. (Spain): Academia Canaria de Ciencias,
- 53** **Title of the work:** Rare earth optical pressure and temperature sensors
Authors (by signature order): V. Lavín (*); **Type of participation:** Participatory - oral
S. F. León-Luis; U. R. Rodríguez-Mendoza; V. communication
Monteseguro; J. E. Muñoz-Santiuste; I. R. Martín
End date: 16/05/2014,
En: Photoluminescence in Rare Earths (PRE'14). San Sebastian, pp. 13/05/2014. (Spain): Committee PRE'14,
- 54** **Title of the work:** Structural peculiarities and emission features of Sm³⁺-doped
Authors (by signature order): W. **Type of participation:** Participatory - oral
Ryba-Romanowski (*); A. Strzep; Marek Berkowski; communication
H. Rodríguez-Rodríguez; I. R. Martín
End date: 16/05/2014,
En: Photoluminescence in Rare Earths (PRE'14). San Sebastian, pp. 13/05/2014. (Spain): Committee PRE'14,
- 55** **Title of the work:** Synthesis, structural modelization and luminescent properties of a novel erbium(III) complex with 2,4-nonanedione and 2,2'-bipyridine ligands
Authors (by signature order): P. Martín-Ramos; P. **Type of participation:** 'Participatory - poster
Chamorro-Posada; M. Ramos-Silva; P. S. Pereira da
Silva; V. Lavín; I. R. Martín; F. Lahoz; J. Martín-Gil
End date: 16/05/2014,
En: Photoluminescence in Rare Earths (PRE'14). San Sebastian, pp. 13/05/2014. (Spain): Committee PRE'14,
- 56** **Title of the work:** Localized heating of Nd³⁺-doped glasses using silica microspheres as focusing lenses
Authors (by signature order): C. Pérez-Rodríguez **Type of participation:** Participatory - oral
(*); L. Labrador-Paez; S. Rios; I. R. Martín communication
End date: 14/03/2014,
En: NanoSpainConf. Madrid, pp. 11/03/2014. (Spain): NanoSpain,



- 57** **Title of the work:** Applications of transparent microspheres: temperature optical sensors and focusing lenses to produce submicron spots
Type of event: Conference
Authors (by signature order): I. R. Martín (*); S. Ríos; C. Pérez-Rodríguez; L. L. Martín; S. F. León-Luis; V. Lavín; V. Venkatramu; C.K. Jayasankar; M.L.P. Reddy; P. Babu
Type of participation: Participatory - invited/keynote talk
End date: 21/02/2014,
Reasons for participation: Upon invitation
En: International Conference on Advanced Functional Materials ICAFM 2014. Thiruvananthapuram, pp. 19/02/2014. (India): CSIR-National Institute for interdisciplinari Science and Technology,
- 58** **Title of the work:** Optical pressure and Temperature sensors
Type of event: Conference
Authors (by signature order): U. R. Rodríguez-Mendoza (*); S.F. León-Luis; V. Lavín; J.E. Muñoz-Santiuste; I. R. Martín; V. Venkatramu; C. K. Jayasankar; M.L.P. Reddy; P. Babu
Type of participation: Participatory - invited/keynote talk
End date: 21/02/2014,
Reasons for participation: Upon invitation
En: International Conference on Advanced Functional Materials ICAFM 2014. Thiruvananthapuram, pp. 19/02/2014. (India): CSIR-National Institute for interdisciplinari Science and Technology,
- 59** **Title of the work:** Upconversion processes obtained in submicron spots produced by transparent microspheres
Authors (by signature order): I. R. Martín
Type of participation: Participatory - invited/keynote talk
End date: 21/02/2014,
En: Nonlinear optics and Materials. Kalavakkam, pp. 03/02/2014. (India): Departament of Physics, College of Engineering Kalavakkam,
- 60** **Title of the work:** Clustering of aerosols in a potential-well trap
Authors (by signature order): J. Moore (*); L. L. Martín; K. H. Kim; H. Chandralalim; M. Eichenfield; I. R. Martín; Tal E. Carmon
Type of participation: Participatory - oral communication
End date: 01/02/2014,
En: Photonics West. OPTO. San Francisco. California, pp. 01/02/2014. SPIE,
- 61** **Title of the work:** High pressure tuning of whispering gallery mode resonances in a neodymium doped glass microsphere
Authors (by signature order): L. L. Martín(*); S. F. León-Luis; C. Pérez-Rodríguez; I. R. Martín; V. Lavín; U. R. Rodríguez-Mendoza
Type of participation: Participatory - oral communication
End date: 06/09/2013,
En: European High Pressure Research Group International Meeting (EHPRG51). Londres, pp. 01/09/2013. (United Kingdom): EHPRG Committee,
- 62** **Title of the work:** Upconversion emission in rare earth doped materials under near infrared excitation using silica microspheres as focusing lenses
Type of event: Workshop
Authors (by signature order): I. R. Martín(*); S. Ríos; C. Pérez-Rodríguez; L. L. Martín
Type of participation: Participatory - invited/keynote talk



End date: 19/07/2013,

En: WIO 2013 IEEE International workshop on Information Optics. Puerto de la Cruz, pp. 15/07/2013. Canary Islands (Spain): Committee WIO,

- 63** **Title of the work:** Luminescence of f-elements under pressure
Authors (by signature order): V. Lavín(*); C. J. Jayasankar; F. Rivera-López; V. Venkatramu; I. R. Martín; U. R. Rodríguez-Mendoza; P. Babu
Type of participation: Participatory - oral communication
End date: 31/08/2012,
En: 8th International Conference on f-Elements. Udine, pp. 26/08/2012. (Italy): Committee ICFE,
- 64** **Title of the work:** Microspheres made from erbium doped barium titanium silicate glass as an active and passive optical micro-resonator
Authors (by signature order): L.L. Martín; D. Navarro-Urrios; F. Ferrareze-Lupi; I. R Martín; C. Pérez-Rodríguez; N. E. Capuj
Type of participation: 'Participatory - poster
End date: 31/08/2012,
En: 8th International Conference on f-Elements. Udine, pp. 26/08/2012. (Italy): Committee ICFE,
- 65** **Title of the work:** Optical Temperature sensors based on f-elements
Authors (by signature order): S. F. León-Luis(*); U. R. Rodríguez-Mendoza; V. Monteseuro; C. Pérez-Rodríguez; I. R. Martín; V. Lavín
Type of participation: Participatory - oral communication
End date: 31/08/2012,
En: 8th International Conference on f-Elements. Udine, pp. 26/08/2012. (Italy): Committee ICFE,
- 66** **Title of the work:** Upconversion emission obtained in Yb³⁺-Er³⁺ doped fluoroindate glasses using silica microspheres as focusing lens
Authors (by signature order): C. Pérez-Rodríguez; S. Rios; I. R. Martín (*); L.L. Martín; P. Haro-González; D. Jaque
Type of participation: Participatory - oral communication
End date: 31/08/2012,
En: 8th International Conference on f-Elements. Udine, pp. 26/08/2012. (Italy): Committee ICFE,
- 67** **Title of the work:** Combination of optical microtransmission and microphotoluminescence techniques for local characterization of rare earth doped glass microspheres
Type of event: Conference
Authors (by signature order): D. Navarro-Urrios; M. Baselga; F. Ferrarese Lupi; L.L. Martín; C.J. Pérez-Rodríguez; I.R. Martín; C. Vasconcelos; N.E. Capuj(*)
Type of participation: Participatory - oral communication
End date: 21/11/2011,
En: Trends in Nano Technology TNT 2011. Tenerife, pp. 25/11/2011. (Spain): Phantoms Foundation,
- 68** **Title of the work:** Behavior of whispering gallery modes in glass microspheres as a function of temperature
Type of event: Conference
Authors (by signature order): C.J. Pérez-Rodríguez(*); L.L. Martín; D. Navarro-Urrios; F. Ferrarese Lupi; P. Haro-González; I.R. Martín; N. E. Capuj
Type of participation: Participatory - oral communication
End date: 28/09/2011,
En: 2nd EOS Topical Meeting on Lasers (ETML11) and 4th EOS Topical Meeting on Optical Microsystems (O?S'11). Capri, pp. 26/09/2011. (Italy): European Optical Society (EOS),



- 69** **Title of the work:** Laser emission at 1060nm in Nd³⁺ doped glass microspheres without coupling devices.
Type of event: Conference
Authors (by signature order): L.L. Martin(*); C.J. Pérez-Rodríguez; D. Navarro-Urrios; F. Ferrarese Lupi; P. Haro-González; I.R. Martín.; N. E. Capuj
Type of participation: Participatory - oral communication
End date: 28/09/2011,
En: 2nd EOS Topical Meeting on Lasers (ETML11) and 4th EOS Topical Meeting on Optical Microsystems (O?S'11). Capri, Italia, pp. 26/09/2011. European Optical Society (EOS),
- 70** **Title of the work:** Rare earth luminescence under pressure
Authors (by signature order): V. Lavín (*); C. J. Jayasankar; G. Wortmann; I. R. Martín; V. Venkatramu; F. Rivera-López; P. Babu; W. Sievers; U. R. Rodríguez-Mendoza; Th. Troster
Type of participation: Participatory - invited/keynote talk
Legal deposit: ISBN 8-18372-064-1
End date: 30/09/2011,
En: 23th AIRAPT International Conference. Mumbai, pp. 25/09/2011. (India): AIRAPT and Materials Research Society of India,
- 71** **Title of the work:** Upconverter RE³⁺ doped titania nanotubes
Authors (by signature order): M. Pedroni, P. Haro-González(*), F. Peccinelli, A. Speghini; I. R. Martín, M. Bettinelli
Type of participation: Participatory - oral communication
End date: 22/07/2011,
En: The Third International Workshop on Advanced Spectroscopy and Optical Materials (IWASOM 2011). Gdansk, pp. 17/07/2011. (Poland): Gdansk University and Polish Academy of Sciences,
- 72** **Title of the work:** Synthesis, Characterization And Optical Spectroscopy Of Eu³⁺ Doped Titanate Nanotubes
Type of event: Conference
Authors (by signature order): P. Haro-González(*); M. Pedroni; L. L. Martín; F. Piccinelli; I. R. Martín; S. Polizzi; M. Bettinelli; and A. Speghini
Type of participation: Participatory - oral communication
End date: 01/07/2011,
En: 16th International Conference on Luminescence and Optical Spectroscopy of Condensed Matter. Ann Arbor, Michigan, pp. 27/06/2011. (United States of America): University of Michigan,
- 73** **Title of the work:** Whispering Gallery Modes In A GlassMicrosphere: Optimization Of Pumping In A Modified Confocal Microscope
Type of event: Conference
Authors (by signature order): L L. Martin-Rodriguez (*), P. Haro-González, I. R. Martín, D. Navarro-Urrios, D. Alonso; C. Pérez-Rodríguez, D. Jaque and N. E. Capuj
Type of participation: Participatory - oral communication
End date: 01/07/2011,
En: 16th International Conference on Luminescence and Optical Spectroscopy of Condensed Matter. Ann Arbor, Michigan, pp. 27/06/2011. (United States of America): University of Michigan,



- 74** **Title of the work:** Energy transfer processes in Eu³⁺ doped nanocrystalline La₂TeO₆ phosphor
Authors (by signature order): J. Llanos, R. Castillo, **Type of participation:** 'Participatory - poster
I. R. Martín, L. L. Martín, C. Pérez-Rodríguez, P.
Haro-González
End date: 01/07/2011,
En: 18th International Symposium on Metastable, Amorphous and Nanostructured Materials {ISMANAM 2011}. Gijón, pp. 26/06/2011. (Spain): University of Oviedo,
- 75** **Title of the work:** Formation of SBN nanocrystals under laser irradiation in nanocrystals under laser irradiation in Tm-Yb codoped glass
Authors (by signature order): I. R. Martín, P. **Type of participation:** 'Participatory - poster
Haro-González, C. Pérez-Rodríguez, L. L. Martín, D.
Kowalska
End date: 01/07/2011,
En: 18th International Symposium on Metastable, Amorphous and Nanostructured Materials {ISMANAM 2011}. Gijón, pp. 26/06/2011. (Spain): University of Oviedo,
- 76** **Title of the work:** Desarrollo de materiales ópticamente activos como sensores de temperatura
Authors (by signature order): I. R. Martín (*) **Type of participation:** Participatory - oral communication
End date: 27/01/2011,
En: I simposio Español de Altas Presiones. Miraflores de la Sierra, Madrid, pp. 23/01/2011. (Spain): Malta Consolider Team and QUIMAPRES,
- 77** **Title of the work:** Direct writing glass ceramics lines in glass samples by laser irradiation
Authors (by signature order): P. Haro-González (*); **Type of participation:** Participatory - oral communication
D. Kowalska; L.L. Martín; I.R. Martín.
End date: 25/06/2010,
En: Dynamical Processes in Excited States of Solids (DPC10). Argonne, pp. 20/06/2010. (United States of America): Argonne National Laboratory,
- 78** **Title of the work:** Local devitrification of Dy³⁺ doped Ba₂TiSi₂O₈ glass by laser irradiation
Authors (by signature order): L.L. Martín; P. **Type of participation:** 'Participatory - poster
Haro-González; J. M. Cáceres; N. E. Capuj; I. R.
Martin
End date: 30/04/2010,
En: 3rd WORKSHOP ON PHOTOLUMINESCENCE IN RARE EARTHS. Florencia, pp. 28/04/2010. (Italy): SIOF,
- 79** **Title of the work:** Pump and Probe measurement of optical amplification at 575 nm in dysprosium doped lithium niobate crystal
Authors (by signature order): P. Haro-González; **Type of participation:** 'Participatory - poster
L.L. Martín; I. R. Martín; G. Grazyna Dominiak-Dzik
and W. Ryba-Romanowski
End date: 30/04/2010,
En: 3rd WORKSHOP ON PHOTOLUMINESCENCE IN RARE EARTHS. Florencia, pp. 28/04/2010. (Italy): SIOF,
- 80** **Title of the work:** Writing Strontium Barium Niobate nanocrystals lines in glass matrix by laser irradiation
Authors (by signature order): P. Haro-González(*); **Type of participation:** Participatory - oral communication
I.R. Martín; L. L. Martín; Alberto Hernández Creus.
End date: 30/04/2010,



En: 3rd WORKSHOP ON PHOTOLUMINESCENCE IN RARE EARTHS. Florencia, pp. 28/04/2010. (Italy): SIOF,

- 81 Title of the work:** Characterization of the Er³⁺ and Nd³⁺ doped strontium barium niobate glass-ceramic as temperature sensor.
Type of event: Conference
Authors (by signature order): P. Haro-González, I. R. Martín, L.L. Martín and V. Lavín. **Type of participation:** 'Participatory - poster'
End date: 11/12/2009,
En: 5th Laser Ceramics Symposium: International Symposium on Laser Transparent Ceramics for Photonics Applications.. Bilbao, pp. 09/12/2009. (Spain): Universidad del País Vasco y Centro de Física de Materiales (CSIC),
- 82 Title of the work:** Characterization of the Er³⁺ ions in NaYF₄ nanocrystalline transparent glass-ceramics as temperature sensor.
Type of event: Conference
Authors (by signature order): S. F. León-Luis, P. Haro-González, J.M. Cáceres, I. R. Martín, U.R. Rodríguez-Mendoza and V. Lavín. **Type of participation:** 'Participatory - poster'
End date: 11/12/2009,
En: 5th Laser Ceramics Symposium: International Symposium on Laser Transparent Ceramics for Photonics Applications.. Bilbao, pp. 09/12/2009. (Spain): Universidad del País Vasco y Centro de Física de Materiales (CSIC),
- 83 Title of the work:** Direct Writing Glass Ceramics Lines in Glass Samples by Laser Irradiation
Type of event: Conference
Authors (by signature order): P. Haro-González, D. Kowalska, J.M. Cáceres and I.R. Martín **Type of participation:** 'Participatory - poster'
End date: 11/12/2009,
En: 5th Laser Ceramics Symposium: International Symposium on Transparent Ceramics for Photonics Applications. Bilbao, pp. 09/12/2009. (Spain): Universidad del País Vasco y Centro de Física de Materiales (CSIC),
- 84 Title of the work:** Effect of Erbium content on the ferroelectric properties by optical measurements of SBN glass ceramics
Type of event: Conference
Authors (by signature order): P. Haro-González and I.R. Martín **Type of participation:** 'Participatory - poster'
End date: 11/12/2009,
En: 5th Laser Ceramics Symposium: International Symposium on Transparent Ceramics for Photonics Applications. Bilbao, pp. 09/12/2009. (Spain): Universidad del País Vasco y Centro de Física de Materiales (CSIC),
- 85 Title of the work:** Local structure and radiative probabilities of the rare earth ions in transparent B-PbF₂ nanostructured glass ceramic
Type of event: Conference
Authors (by signature order): V. Lavín, I. R. Martín and A. Meijerink **Type of participation:** 'Participatory - poster'
End date: 11/12/2009,
En: 5th Laser Ceramics Symposium: International Symposium on Transparent Ceramics for Photonics Applications. Bilbao, pp. 09/12/2009. (Spain): Universidad del País Vasco y Centro de Física de Materiales (CSIC),



- 86** **Title of the work:** Optical Properties of Transparent Dy³⁺ Doped Ba₂TiSi₂O₈ Glass-Ceramic
Type of event: Conference
Authors (by signature order): L.L. Martín, P. Haro-González, J.M. Cáceres. A.D. Lozano-Gorrín and I.R. Martín
Type of participation: 'Participatory - poster
End date: 11/12/2009,
En: 5th Laser Ceramics Symposium: International Symposium on Transparent Ceramics for Photonics Applications. Bilbao, pp. 09/12/2009. (Spain): Universidad del País Vasco y Centro de Física de Materiales (CSIC),
- 87** **Title of the work:** Stimulated emission of radiation in the blue, green and red regions in a glass-ceramics materials
Type of event: Conference
Authors (by signature order): F. Lahoz, N. Capuj, P. Haro-González, I.R. Martín and C. Pérez-Rodríguez
Type of participation: 'Participatory - poster
End date: 11/12/2009,
En: 5th Laser Ceramics Symposium: International Symposium on Transparent Ceramics for Photonics Applications. Bilbao, pp. 09/12/2009. (Spain): Universidad del País Vasco y Centro de Física de Materiales (CSIC),
- 88** **Title of the work:** Length scale of energy transfer mechanisms in Er³⁺-Yb³⁺ codoped waveguides
Authors (by signature order): P. Haro-González, I. R. Martín, F. Lahoz, N. Capuj; D. Muñoz, J. Gonzalo, C. N. Afonso
Type of participation: 'Participatory - poster
End date: 27/11/2009,
En: International Conference on Laser Ablation (COLA'09). Singapore, pp. 22/11/2009. (Singapore): Committee COLA,
- 89** **Title of the work:** Analysis of the upconversion mechanisms using a double pulse laser experiment with a variable temporal delay between pulses
Authors (by signature order): I. R. Martín; P. Haro-González and L. L. Martín.
Type of participation: 'Participatory - poster
Legal deposit: ISBN 978-88-8492-638-8
End date: 05/09/2009,
En: 5th International Symposium on Laser, Scintillator and Non Linear Optical Material. Pisa, pp. 03/09/2009. (Italy): Pisa University,
- 90** **Title of the work:** Crystallization effect on Tm³⁺-Yb³⁺ codoped SBN glass ceramic
Authors (by signature order): P. Haro-González; I. R. Martín; L. L. Martin; D. Kowalska and J.M. Cáceres.
Type of participation: 'Participatory - poster
Legal deposit: ISBN 978-88-8492-638-8
End date: 05/09/2009,
En: 5th International Symposium on Laser, Scintillator and Non Linear Optical Material. Pisa, pp. 03/09/2009. (Italy): Pisa University,
- 91** **Title of the work:** Formation of Nd³⁺ doped Strontium Barium Niobate nanocrystals by two different methods
Authors (by signature order): P. Haro-González; L. L. Martin; S. González-Pérez and I. R. Martín.
Type of participation: 'Participatory - poster
Legal deposit: ISBN 978-88-8492-638-8
End date: 05/09/2009,



En: 5th International Symposium on Laser, Scintillator and Non Linear Optical Material. Pisa, pp. 03/09/2009. (Italy): Pisa University,

- 92 Title of the work:** Optical amplification by upconversion in Tm-Yb fluorindate glass
Authors (by signature order): P. Haro-González, F. Lahoz, I. R. Martín, S. Gonzalez-Pérez, N. Capuj
Type of participation: 'Participatory - poster
Legal deposit: ISBN 978-88-8492-638-8
End date: 05/09/2009,
En: 5th International Symposium on Laser, Scintillator and Non Linear Optical Material. Pisa, pp. 03/09/2009. (Italy): Pisa University,
- 93 Title of the work:** Study of nanostructure distribution of Er³⁺-Yb³⁺ codoped on porous silicon thin film
Authors (by signature order): P. Haro-González; I.R. Martín; L.L. Martín; D. Muñoz; J. Gonzalo; C.N. Afonso; F. Lahoz; N.E. Capuj.
Type of participation: 'Participatory - poster
Legal deposit: ISBN 978-88-8492-638-8
End date: 05/09/2009,
En: 5th International Symposium on Laser, Scintillator and Non Linear Optical Material. Pisa, Italia, pp. 03/09/2009. Pisa University,
- 94 Title of the work:** Transfer and back transfer processes in Yb³⁺-Er³⁺ codoped Strontium Barium Niobate glass-ceramics
Authors (by signature order): L. L. Martín; P. Haro-González, I.R. Martín, A. Martínez-Javaloy and A. Mújica.
Type of participation: 'Participatory - poster
Legal deposit: ISBN 978-88-8492-638-8
End date: 05/09/2009,
En: 5th International Symposium on Laser, Scintillator and Non Linear Optical Material. Pisa, pp. 03/09/2009. (Italy): Pisa University,
- 95 Title of the work:** Neodymium fluorescence-based probe of pressure-induced structural phase transition in SrWO₄ crystals.
Authors (by signature order): S.F. León-Luis, U. R. Rodríguez-Mendoza, D. Errandonea, F. J. Manjón, P. Rodríguez-Hernández, I. R. Martín, Dh. Tu, G. Jia, D. Martínez-García, A. Muñoz and V. Lavín
Type of participation: 'Participatory - poster
Legal deposit: ISSN 0917-6373
End date: 31/07/2009,
En: AIRAPT-22 and HPCJ-50 Internacional Conference on High Pressure Science and Technology.. Tokyo, pp. 26/07/2009. (Japan): Tokyo International Exchange Center,
- 96 Title of the work:** Characterization of Er³⁺ and Ho³⁺ doped fluorindate glasses as temperature sensors
Authors (by signature order): D Kowalska; S González-Pérez; SF Leon Luis; P Haro-González; IR Martín.
Type of participation: 'Participatory - poster
End date: 17/07/2009,
En: 18th International Laser Physics. Barcelona, pp. 13/07/2009. (Spain): RAS and ICFO,
- 97 Title of the work:** Nanocrystals formation on Ho³⁺ doped Strontium Barium Niobate glass by thermal treatment and laser irradiation
Authors (by signature order): P. Haro-González; S. González-Pérez; L. L. Martín and I. R. Martín
Type of participation: 'Participatory - poster
End date: 17/07/2009,



En: 18th International Laser Physics. Barcelona, pp. 13/07/2009. (Spain): RAS and ICFO,

- 98 Title of the work:** Femtosecond Laser Induced Structural Changes in Strontium Barium Niobate Glasses Doped with Er³⁺ Ions
Authors (by signature order): P. Haro-González; I. R. Martín; S. González-Pérez; L. L. Martín; F. Lahoz; D. Puerto; J. Solís.
End date: 14/11/2008,
En: 4th Laser Ceramics Symposium. Shanghai, pp. 10/11/2008. (China): Shangai Institute of Ceramics and Chinese Academy of Sciences,
- 99 Title of the work:** Microcrystallization in oxyfluoride Nd(3+) doped glass ceramic due to laser irradiation
Authors (by signature order): S. González-Pérez, **Type of participation:** 'Participatory - poster
P. Haro-González and I. R. Martín
End date: 14/11/2008,
En: 4th Laser Ceramics Symposium. Shangai, pp. 10/11/2008. (China): Shangai Institute of Ceramics and Chinese Academy of Sciences,
- 100 Title of the work:** Optical gain by upconversion in Tm-Yb oxyfluoride glass ceramics
Authors (by signature order): P. Haro-González, F. Lahoz, I. R. Martín, S. González-Pérez and N. Capuj
Type of participation: 'Participatory - poster
End date: 14/11/2008,
En: 4th Laser Ceramics Symposium. Shangai, pp. 10/11/2008. (China): Shangai Institute of Ceramics and Chinese Academy of Sciences,
- 101 Title of the work:** Time Resolved Photoluminescence Spectroscopy Of Er³⁺ Doped Sbn Glass And Glass Ceramics
Authors (by signature order): D Kowalska; P Haro-Gonzalez; IR Martín; Sara González Pérez. **Type of participation:** 'Participatory - poster
End date: 26/09/2008,
En: The First International Conference on RARE EARTH MATERIALS (REMAT'08). Karpacz, pp. 21/09/2008. (Poland): Research Center and University of Wroclaw,
- 102 Title of the work:** Laser irradiation of an oxyfluoride glass doped with Tm³⁺ and Yb³⁺ ions
Authors (by signature order): Sara Gonzalez Perez; IR Martín; F. Lahoz; P. Haro-González. **Type of participation:** 'Participatory - poster
End date: 25/07/2008,
En: Third International Conference on Optical, Optoelectronic and Photonic Materials. Edmonton, pp. 20/07/2008. (Canada): Committee COOPMA,
- 103 Title of the work:** Cooperative luminescence and second harmonic generation in Yb³⁺-Er³⁺:Y(BO₃)
Authors (by signature order): P Haro-González, V. Sánchez-Fajardo, F. Rivera-López, I. R. Martín, A.D., Lozano-Gorrín; M. E. Torres **Type of participation:** 'Participatory - poster
End date: 11/07/2008,
En: 15th International Conference on Luminescence and Optical Spectroscopy of. Lyon, pp. 07/07/2008. (France): Universite Claude Bernard Lyon 1,
- 104 Title of the work:** Crystallization effect on Er³⁺- doped SBN glass ceramic
Authors (by signature order): P Haro-González; IR Martín; NE Capuj; F Lahoz; S. González-Pérez **Type of participation:** 'Participatory - poster
End date: 11/07/2008,



En: 15th International Conference on Luminescence and Optical Spectroscopy of. Lyon, pp. 07/07/2008. (France): Universite Claude Bernard Lyon 1,

- 105 Title of the work:** Optical gain in Er³⁺-doped transparent LuVO₄ crystal at 850 nm
Authors (by signature order): P Haro-González, M. Bettinelli, E. Cavalli, N.E. Capuj, F. Lahoz and I.R. Martín
Type of participation: 'Participatory - poster
End date: 11/07/2008,
En: 15th International Conference on Luminescence and Optical Spectroscopy of. Lyon, pp. 07/07/2008. (France): Universite Claude Bernard Lyon 1,
- 106 Title of the work:** Infrared and upconversion emissions in Er³⁺-Yb³⁺ co-doped metaphosphate laser glasses.
Type of event: Conference
Authors (by signature order): P. Babu, F. Rivera-López, R. Vijaya, V. Lavín, I.R. Martín, U.R. Rodríguez-Mendoza; L. Rama Moorthy and C. K. Jayasankar
Type of participation: 'Participatory - poster
End date: 22/02/2008,
En: NCAMDT-2008, National Conference on Advanced Materials Devices and Technologies.. Tirupati, pp. 20/02/2008. (India): Department of Physics. Sri Venkateswara University (Tirupati). India,
- 107 Title of the work:** Energy transfer and upconversion in Nd³⁺-Yb³⁺ codoped metaphosphate laser glasses.
Type of event: Conference
Authors (by signature order): P. Babu, R. Vijaya, F. Rivera-López, V. Lavín, I.R. Martín, U.R. Rodríguez-Mendoza; L. Rama Moorthy and C. K. Jayasankar
Type of participation: 'Participatory - poster
End date: 16/02/2008,
En: ICLA-2008, International Conference on Luminescence and Applications.. New Delhi, pp. 13/02/2008. (India): National Physical Laboratory, New Delhi, India,
- 108 Title of the work:** Energy Transfer influence on the optical properties of Er-Yb codoped a-Al₂O₃ thin films
Authors (by signature order): F. Lahoz, P Haro-González and I. R. Martín
Type of participation: 'Participatory - poster
End date: 28/09/2007,
En: International Conference on Laser Ablation (COLA 2007). Guía de Isora, pp. 24/09/2007. (Spain): Instituto de Óptica Daza de Valdés (CSIC),
- 109 Title of the work:** Laser irradiation in Er³⁺ doped strontium barium niobate glasses
Authors (by signature order): P Haro-González; E. Arbelo, A. J. Afonso, I. R. Martín and F. Lahoz
Type of participation: 'Participatory - poster
End date: 28/09/2007,
En: International Conference on Laser Ablation (COLA 2007). Guía de Isora, pp. 24/09/2007. (Spain): Instituto de Óptica Daza de Valdés (CSIC),
- 110 Title of the work:** Local Growth of Nanocrystals In An Oxyfluoride Glass Doped With Er³⁺ Ions using a Continuous Argon Laser
Authors (by signature order): Sara Gonzalez Perez; IR Martín; F Lahoz; P Haro-González; M. D. Ramos
Type of participation: 'Participatory - poster
End date: 28/09/2007,



En: International Conference on Laser Ablation (COLA 2007). Guía de Isora, pp. 24/09/2007. (Spain): Instituto de Óptica Daza de Valdés (CSIC),

111 Title of the work: Upconversion emission in Er³⁺ doped lead niobium germanate thin film glasses produced by PLD

Authors (by signature order): F. Lahoz, P Haro-González, F. Rivera, S. González-Pérez and I. R. Martín

Type of participation: 'Participatory - poster

End date: 28/09/2007,

En: International Conference on Laser Ablation (COLA 2007). Guía de Isora, pp. 24/09/2007. (Spain): Instituto de Óptica Daza de Valdés (CSIC),

112 Title of the work: Infrared-to-visible energy upconversion in Er³⁺-doped nanocrystalline glass-ceramic under pressure.

Type of event: Conference

Authors (by signature order): Fernando Rivera-López, Ulises R. Rodríguez Mendoza, Inocencio R. Martín; Sara González-Pérez and Víctor Lavín

Type of participation: 'Participatory - poster

End date: 21/09/2007,

En: Joint 21st AIRAPT and 45 th EHPRG Int. Conference.. Catania, pp. 17/09/2007. (Italy): Committee EHPRG,

113 Title of the work: Growth of Nanocrystals in A Nd³⁺- Yb³⁺ Codoped Oxyfluoride Glass By Laser Irradiation

Authors (by signature order): Sara Gonzalez Perez; IR Martín; D. Jaque; P. Haro-Gonzalez.

Type of participation: 'Participatory - poster

End date: 11/07/2007,

En: International Conference on Surface Coating and Nanostructured Materials (NanoSMat 2007). Algarve, pp. 09/07/2007. (Portugal): NanoSmat Committee,

114 Title of the work: 850 nm optical amplification in Er³⁺-doped transparent Ba₂NaNb₅O₁₅ single crystal

Authors (by signature order): P. Haro-González; E. Cavalli, F. Lahoz, I. R. Martín and N. E. Capuj.

Type of participation: 'Participatory - poster

End date: 22/06/2007,

En: 16th International Conference on Dynamical Processes in Excited States of Solids (DPC07). Segovia, Madrid, pp. 17/06/2007. (Spain): Universidad Autónoma de Madrid,

115 Title of the work: Desvitrification on an oxyfluoride glass doped with Tm³⁺ and Yb³⁺ ions under Ar laser irradiation

Authors (by signature order): Sara Gonzalez Perez; IR Martín; P. Haro-González; F. Lahoz; D. Jaque; N. Capuj.

Type of participation: 'Participatory - poster

End date: 22/06/2007,

En: 16th International Conference on Dynamical Processes in Excited States of Solids (DPC07). Segovia, Madrid, pp. 17/06/2007. (Spain): Universidad Autónoma de Madrid,

116 Title of the work: Increase of the blue upconversion emission in YAG:Tm³⁺ nanopowders by codoping with Yb³⁺ ions

Authors (by signature order): S. González-Pérez; P. Haro-González; M. Liu; S.W. Wang; N. Capuj; F. Lahoz and I. R. Martín.

Type of participation: 'Participatory - poster

End date: 22/06/2007,



En: 16th International Conference on Dynamical Processes in Excited States of Solids (DPC07). Segovia, Madrid, pp. 17/06/2007. (Spain): Universidad Autónoma de Madrid,

117 Title of the work: Optical Spectroscopy of Eu³⁺ and Er³⁺-doped TeO₂-PbF₂-CdF₂ glasses and glass-ceramics

Authors (by signature order): U. R. Rodríguez-Mendoza, V. Lavín, J. M. Cáceres, I. R. Martín, F. Rivera, E. Lalla and F. Lahoz

Type of participation: 'Participatory - poster

End date: 22/06/2007,

En: 16th International Conference on Dynamical Processes in Excited States of Solids (DPC07). Segovia, Madrid, pp. 17/06/2007. (Spain): Universidad Autónoma de Madrid,

118 Title of the work: Optical properties of Er -doped strontium barium niobate nano-crystals obtained by thermal treatment in glass

Authors (by signature order): P. Haro-González; F. Lahoz; J. González-Platas; JM Cáceres; Sara Gonzalez Perez; D. Marrero-López; N. Capuj; IR Martin.

Type of participation: 'Participatory - poster

End date: 22/06/2007,

En: 16th International Conference on Dynamical Processes in Excited States of Solids (DPC07). Segovia, Madrid, pp. 17/06/2007. (Spain): Universidad Autónoma de Madrid,

119 Title of the work: Local Desvitrification on an Oxyfluoride Glass Doped With Ho³⁺ Ions Under Argon Laser Irradiation

Authors (by signature order): Sara Gonzalez Perez; IR Martin; F. Rivera; P. Haro-González; N. Capuj.

Type of participation: 'Participatory - poster

End date: 01/06/2007,

En: 2nd workshop on Photoluminescence In Rare Earths: Photonic Materials And Devices (Pre'07). Trento, pp. 31/05/2007. (Italy): Committee PRE'07,

120 Title of the work: Optical Amplification In Er³⁺ Doped Fluoroindate Glass At 840nm and 1550nm

Authors (by signature order): P. Haro-González. F. Lahoz, I. R. Martín, S. González-Pérez; F. Rivera-López, D. Navarro-Urrios and N.E. Capuj

Type of participation: 'Participatory - poster

End date: 01/06/2007,

En: 2nd workshop on Photoluminescence In Rare Earths: Photonic Materials And Devices (Pre'07). Trento, pp. 31/05/2007. (Italy): Committee PRE'07,

121 Title of the work: Optical gain in dye-doped polymer waveguides using oxidised porous silicon cladding

Type of event: Conference

Authors (by signature order): D. Navarro-Urrios(*), M. Ghulinyan, P. Bettotti, N. Capuj, C. J. Oton, F. Lahoz, I. R. Martin

Type of participation: Participatory - oral communication

End date: 04/05/2007,

En: SPIE European Symposium on Microtechnologies for the New Millennium. Maspalomas, Gran Canaria, España, pp. 02/05/2007. (Spain): Committee SPIE,

122 Title of the work: Local Temperature Control on an Oxyfluoride Glass Doped With Er³⁺ Ions Under Diode Laser Irradiation

Authors (by signature order): Sara Gonzalez Perez; IR Martin; D. Jaque; N. Capuj; F. Lahoz.

Type of participation: 'Participatory - poster

End date: 22/09/2006,



En: International Conference on the Structure of Non-Crystalline Materials (NCM10). Praga, pp. 18/09/2006. (Czech Republic): Committee NCM10,

123 Title of the work: Temperature Dependence of Nd³⁺-Yb³⁺ Energy Transfer Processes In Codoped Oxyfluoride Glass-Ceramics

Authors (by signature order): Sara Gonzalez Perez; F. Rivera López; I.R. Martín; V. Lavín; F. Lahoz; UR Rodriguez Mendoza.

Type of participation: 'Participatory - poster

End date: 22/09/2006,

En: International Conference on the Structure of Non-Crystalline Materials (NCM10). Praga, pp. 18/09/2006. (Czech Republic): Committee NCM10,

124 Title of the work: Analysis of the Eu³⁺ emission in a SrWO₄ laser matrix under pressure

Type of event: Conference

Authors (by signature order): I. R. Martín, I. da Silva, C. González-Silgo, U. R. Rodríguez-Mendoza, V. Lavín, F. Lahoz; S. Maceda Díaz-González, M.L. Martínez-Sarrión, L. Mestres and J. Fernández-Urban

Type of participation: 'Participatory - poster

End date: 08/09/2006,

En: European High Pressure Group EHPRG '06. Praga, pp. 04/09/2006. (Czech Republic): Committee EHPRG,

125 Title of the work: Dielectric, Structural and optical study of BNN:Nd³⁺ laser crystal

Type of event: Conference

Authors (by signature order): M. E. Torres, S. A. Kaminskii, C. González-Silgo, J. González Platas, D. Jaque, A. Ródenas; I. R. Martín and V. Lavín

Type of participation: 'Participatory - poster

Legal deposit: ISBN 83-7085-965-8

End date: 09/09/2006,

En: 6th Internacional Conference on f-elements, ICFE6.. Wroclaw, pp. 04/09/2006. (Poland): Committee ICFE6,

126 Title of the work: Effect of pressure on the luminescence properties of Nd³⁺ doped SrWO₄ laser crystal.

Type of event: Conference

Authors (by signature order): D. Errandonea, G. Jia, Ch. Tu, I. R. Martín, U. R. Rodríguez-Mendoza, F. Lahoz, M. E. Torres; V. Lavín

Type of participation: 'Participatory - poster

Legal deposit: ISBN 83-7085-965-8

End date: 09/09/2006,

En: 6th Internacional Conference on f-elements, ICFE6.. Wroclaw, pp. 04/09/2006. (Poland): Committee ICFE6,

127 Title of the work: High Pressure luminescence in Nd³⁺ doped MgO: LiNbO₃.

Type of event: Conference

Authors (by signature order): U. R. Rodríguez Mendoza, A. Ródenas, D. Jaque, I.R. Martín, F. Lahoz and V. Lavín

Type of participation: 'Participatory - poster

End date: 08/09/2006,

En: European High Pressure Group EHPRG '06.. Praga, pp. 04/09/2006. (Czech Republic): Committee EHPRG,



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- 128 Title of the work:** Pressure effects on the Eu³⁺ local structure in silicate glasses. Influence of the J-mixing on the crystal-field analysis.
Type of event: Conference
Authors (by signature order): F. Rivera-López, J. E. Muñoz-Santiuste, U. R. Rodríguez-Mendoza, S. González-Pérez; I. R. Martín, F. Lahoz and V. Lavín
Type of participation: 'Participatory - poster
End date: 08/09/2006,
En: European High Pressure Group EHPRG '06. Praga, pp. 04/09/2006. (Czech Republic): Committee EHPRG,
- 129 Title of the work:** Pressure- and temperature-induced structural phase transitions in fluoride matrices monitoring by Eu³⁺ luminescence
Type of event: Conference
Authors (by signature order): Lavin V.; Munoz-Santiuste J.E.; Troster T.; Rodriguez-Mendoza U.R.; Gonzalez-Platas J.; Gonzalez-Silgo C.; Martin I.R.; Rivera-Lopez F.; Gonzalez-Perez S.
Type of participation: 'Participatory - poster
End date: 08/09/2006,
En: European High Pressure Group EHPRG '06.. Praga, pp. 04/09/2006. (Czech Republic): Committee EHPRG,
- 130 Title of the work:** Nuevos materiales vitrocerámicos nanoestructurados para aplicaciones ópticas.
Publisher: Servizo de Publicacións da Universidade de Vigo, 2006
Type of event: Conference
Authors (by signature order): V. Lavín(*), F. Lahoz, I. Martín, U. Rodríguez-Mendoza, F. Rivera-López, S. González-Pérez; J. Cáceres, I. da Silva, J. González-Platas and C. González-Silgo
Type of participation: Participatory - oral communication
Legal deposit: C-1461-2006, ISBN 84-8158-325-1
End date: 22/06/2006,
En: IX Congreso Nacional de Materiales.. Vigo, pp. 20/06/2006. (Spain): Sociedad Española de Materiales,
- 131 Title of the work:** Optical gain in oxidized porous silicon waveguides impregnated with a laser dye
Type of event: Conference
Authors (by signature order): C. J. Oton (*), D. Navarro-Urrios, M. Ghulinyan, N. E. Capuj, S. Gonzalez-Perez, F. Lahoz; I. R. Martín and L. Pavesi
Type of participation: Participatory - oral communication
End date: 19/03/2006,
En: Porous Semiconductors Science and Technology 2006. Sitges, pp. 14/03/2006. (Spain): Committee PSST,
- 132 Title of the work:** Waveguiding, absorption and emission properties of dye-impregnated oxidized porous silicon
Type of event: Conference
Authors (by signature order): D. Navarro-Urrios (*), M. ghulinyan, N. E. Capuj, C. J. Oton, F. Riboli, I.R. Martin, L. Pavesi
Type of participation: Participatory - oral communication
End date: 19/04/2006,
En: Porous Semiconductors Science and Technology 2006. Sitges, pp. 14/03/2006. (Spain): Committee PSST,



- 133** **Title of the work:** Analysis of the optical properties of Pr³⁺-Yb³⁺ ions in codoped transparent oxyfluoride glass ceramics. Application for 1300 nm optical amplifier.
Type of event: Conference
Authors (by signature order): F. Rosa-González, I. R. Martín, F. Lahoz, J. M. Cáceres, V. Lavín; J.M. Calvilla-Quintero; J.M. Calvilla-Quintero and S. González-Pérez
Type of participation: 'Participatory - poster
End date: 09/09/2005,
En: E-MRS Fall Meeting 2005.. Warsaw, pp. 05/09/2005. (Poland): European Materials Research Society,
- 134** **Title of the work:** Optical properties of rare earths doped oxyfluoride glass-ceramics
Type of event: Conference
Authors (by signature order): F. Lahoz (*), I. R. Martín, V. Lavín, U. R. Rodríguez-Mendoza, J. M. Cáceres, F. Rivera-López; S. gonzález-pérez
Type of participation: Participatory - oral communication
End date: 09/09/2005,
En: E-MRS Fall Meeting 2005.. Warsaw, pp. 05/09/2005. (Poland): European Materials Research Society,
- 135** **Title of the work:** Porous silicon based Notch filters and waveguides
Type of event: Conference
Authors (by signature order): C. J. Oton(*), E. Lorenzo, N. Capuj, F. Lahoz, I. R. Martín, D. Navarro, M. Ghulinyan, F. Sbrana; Z. Gaburro and L. Pavesi
Type of participation: Participatory - oral communication
End date: 11/05/2005,
En: SPIE Microtechnologies for the New Millenium. Sevilla, pp. 09/05/2005. (Spain):
- 136** **Title of the work:** Energy transfer processes among Nd³⁺-Yb³⁺ ions in codoped oxyfluoride glass-ceramics.
Type of event: Conference
Authors (by signature order): I.R. Martín, J. M. Almenara, V. Lavín, F. Lahoz, U. R. Rodríguez-Mendoza, J. M. Cáceres and D. Jaque
Type of participation: 'Participatory - poster
End date: 03/05/2005,
En: 1st International Workshop on Photoluminescence in Rare-Earths: Photonic Materials and Devices.. Trento, pp. 02/05/2005. (Italy): Comittee Pre05 (Trento),
- 137** **Title of the work:** IR-to-visible frequency upconversion processes in Ho³⁺-doped low-phonon energy fluoride matrices.
Type of event: Conference
Authors (by signature order): F. Rivera-López, V. Lavín(*), I. R. Martín, F. Lahoz, U. R. Rodríguez-Mendoza and J. M. Cáceres.
Type of participation: Participatory - oral communication
End date: 03/05/2005,
En: 1st International Workshop on Photoluminescence in Rare-Earths: Photonic Materials and Devices.. Trento, pp. 02/05/2005. (Italy): Comittee Pre05 (Trento),
- 138** **Title of the work:** Temperature and pressure induced phase transitions in malonate crystal and fluorozirconate glass monitoring the Eu³⁺ luminescence.
Type of event: Conference
Authors (by signature order): V. Lavín(*), I. R. Martín, F. Lahoz, U. R. Rodríguez-Mendoza, M. Hernández-Molina and C. Ruiz-Pérez.
Type of participation: Participatory - invited/keynote talk
End date: 25/09/2004,



En: II Reunión de la SETN y XV Symposium del GEC.. pp. 20/09/2004. Puerto de la Cruz, Tenerife, España.,

- 139 Title of the work:** Infrared-to-visible photon avalanche upconversion dynamics in Ho³⁺-doped fluorozirconate glasses at room temperature.
Type of event: Conference
Authors (by signature order): V. Lavín, F. Lahoz, I. R. Martín and U. R. Rodríguez-Mendoza.
Type of participation: 'Participatory - poster
En: International Workshop: Photonics and electronic materials.. pp. 15/06/2004. San Sebastián,
- 140 Title of the work:** Rare earths in nanocrystalline glass-ceramics.
Type of event: Conference
Authors (by signature order): F. Lahoz, I. R. Martín, U. R. Rodríguez-Mendoza, I. Iparraguirre, J. Azkargorta; A. Mendioroz and R. Balda
Type of participation: 'Participatory - poster
En: International Workshop: Photonics and electronic materials.. pp. 15/06/2004. San Sebastián,
- 141 Title of the work:** Spectroscopy characterization of Pr³⁺ ions in transparent oxyfluoride glass and glass-ceramic.
Type of event: Conference
Authors (by signature order): R. T. Génova, I. R. Martín, U. R. Rodríguez-Mendoza, A. D. Lozano-Gorrín, P. Núñez and V. Lavín.
Type of participation: 'Participatory - poster
End date: 26/06/2003,
En: 4th International Spring Workshop on Spectroscopy, Structure and Synthesis of Rare Earth Systems.. Ladek Zdroj, pp. 21/06/2003. (Poland): University of Wroclaw,
- 142 Title of the work:** Optical properties of Eu³⁺ ions in malonate crystals to monitor a structural phase transition.
Type of event: Conference
Authors (by signature order): I. R. Martín, F. Lahoz, V. Lavín and M. Hernández-Molina
Type of participation: 'Participatory - poster
End date: 31/08/2002,
En: 19th Congress of the International Commission of Optics (ICO 2002).. Florencia, pp. 25/08/2002. (Italy):
- 143 Title of the work:** Room temperature photon avalanche upconversion in Ho³⁺ doped fluoroindate glasses under excitation at 749 nm
Type of event: Conference
Authors (by signature order): F. Lahoz, I. R. Martín, U. R. Rodríguez-Mendoza, V. L. GUadalupe and J. Méndez-Ramos
Type of participation: 'Participatory - poster
End date: 31/08/2002,
En: 19th Congress of the International Commission of Optics (ICO 2002).. Florencia, pp. 25/08/2002. (Italy):
- 144 Title of the work:** Optical properties of rare earth doped transparent oxyfluoride glass ceramics.
Authors (by signature order): J. Méndez-Ramos(*), I. R. Martín, V. Lavín, U. R. Rodríguez-Mendoza; A. D. Lozano-Gorrín, P. Núñez and V. D. Rodríguez
Type of participation: Participatory - oral communication
End date: 05/07/2002,
En: Europhysical Conference on Defects in insulating Materials (Eurodim 2002).. Wroclaw, pp. 01/07/2002. (Poland):



- 145 Title of the work:** Optical properties of Pr³⁺ in transparent oxyfluoride glasses and glass-ceramics
Type of event: Conference
Authors (by signature order): R. T. Génova, V. Lavín, I. R. Martín, U. R. Rodríguez-Mendoza, J. Méndez-Ramos; V. D. Rodríguez and P. Núñez
Type of participation: 'Participatory - poster
End date: 26/09/2001,
En: Rare Earths 2001. Campos do Jordao, pp. 22/09/2001. (Brazil): Instituto de Química USP,
- 146 Title of the work:** Time-resolved spectroscopy of Eu³⁺ in K₂YF₅ laser crystals
Type of event: Conference
Authors (by signature order): J. Herrero-Cedrés, N. M. Khaidukov, I. R. Martín, V. Lavín, U. R. Rodríguez-Mendoza, V. D. Rodríguez
Type of participation: 'Participatory - poster
End date: 26/09/2001,
En: Rare Earths 2001. Campos do Jordao, pp. 22/09/2001. (Brazil): Instituto de Química USP,
- 147 Title of the work:** Spectroscopic monitoring of the Eu³⁺ ion local structure in the pressure induced amorphization of EuZrF₇ polycrystal
Type of event: Conference
Authors (by signature order): V. Lavín, Th. Tröster, U. R. Rodríguez-Mendoza, I. R. Martín, V. D. Rodríguez
Type of participation: 'Participatory - poster
End date: 19/09/2001,
En: XXXIX European High Pressure Group Meeting. Santander, pp. 16/09/2001. (Spain): European High Pressure Commission,
- 148 Title of the work:** Optical spectroscopy of Eu³⁺-doped GaN semiconductor nanoparticles
Type of event: Conference
Authors (by signature order): A. El-Himri, D. Pérez-Coll, P. Núñez, I. R. Martín, V. Lavín, V. D. Rodríguez
Type of participation: 'Participatory - poster
End date: 04/07/2001,
En: International Conference on Dynamical Processes in Excited States of Solids (DPC'01). Lyon, pp. 01/07/2001. (France): Université Claude Bernard Lyon I,
- 149 Title of the work:** Upconversion dynamics in Yb³⁺-Tm³⁺ codoped oxyfluoride glass ceramics.
Type of event: Conference
Authors (by signature order): J. Méndez-Ramos, A. B. Soria, I. R. Martín, A. D. Lozano-Gorrín and V.D. Rodríguez
Type of participation: 'Participatory - poster
End date: 04/07/2001,
En: International Conference on Dynamical Processes in Excited States of Solids (DPC'01). Lyon, pp. 01/07/2001. (France): Université Claude Bernard Lyon I,
- 150 Title of the work:** Ácido Malónico, una nueva alternativa en ingeniería cristalina: Malonatos de tierras raras (La, Gd, Eu y Pr).
Type of event: Conference
Authors (by signature order): M. Hernández-Molina, P. Lorenzo Luis, T. López, I. R. Martín; E. H. Bocanegra, G. Orpen, C. Ruiz-Pérez
Type of participation: Participatory - oral communication
End date: 30/06/2001,



En: XII Simposio G.E.C.. Castellón, pp. 28/06/2001. (Spain): Grupo Especializado de Cristalografía,

151 Title of the work: Cr³⁺-Tm³⁺ energy transfer in alkali disilicate glasses.

Type of event: Conference

Authors (by signature order): U. R.

Rodríguez-Mendoza, V. D. Rodríguez, I. R. Martín, V. Lavín; J. Méndez-Ramos and P. Núñez

Type of participation: 'Participatory - poster

End date: 21/09/2000,

En: 4th International Conference on f-elements (ICFE4). Madrid, pp. 17/09/2000. (Spain): Comité ICFE,

152 Title of the work: Energy transfer between Eu³⁺ ions in sol-gel derived silica glasses.

Type of event: Conference

Authors (by signature order): I. R. Martín, V.

Lavín, J. Méndez-Ramos, F. Delgado, U. R. Rodríguez-Mendoza; V. D. Rodríguez and A. C. Yanes

Type of participation: 'Participatory - poster

End date: 21/09/2000,

En: 4th International Conference on f-elements (ICFE4). Madrid, pp. 17/09/2000. (Spain): Comité ICFE,

153 Title of the work: Optical properties of Er³⁺ ions in transparent glass ceramics

Type of event: Conference

Authors (by signature order): J. Méndez-Ramos,

V. Lavín, I. R. Martín, U. R. Rodríguez-Mendoza, J. A. González-Almeida; V. D. Rodríguez, A. D. Lozano-Gorrín and P. Núñez

Type of participation: 'Participatory - poster

End date: 21/09/2000,

En: 4th International Conference on f-elements (ICFE4). Madrid, pp. 17/09/2000. (Spain): Comité ICFE,

154 Title of the work: Stark level structure and oscillator strengths of Nd³⁺ ion in different fluoride single crystals

Type of event: Conference

Authors (by signature order): I. R. Martín, Y. Guyot, **Type of participation:** 'Participatory - poster

M. F. Joubert, R. Yu. Abdulsabirov; S. L. Korableva and V. V. Semashko

End date: 21/09/2000,

En: 4th International Conference on f-elements (ICFE4). Madrid, pp. 17/09/2000. (Spain): Comité ICFE,

155 Title of the work: Propiedades ópticas de vitrocerámicos transparentes de oxifluoruros dopados con Eu³⁺

Type of event: Conference

Authors (by signature order): A. D. Lozano-Gorrín, **Type of participation:** 'Participatory - poster

P. Núñez, J. Méndez-Ramos, V. Lavín, I. R. Martín, U. R. Rodríguez-Mendoza; V. D. Rodríguez

End date: 09/09/2000,

En: 9ª Reunión Científica Plenaria de Química Inorgánica. 3ª Reunión Científica Plenaria de Química de Estado Sólido. Bilbao, pp. 05/09/2000. (Spain):

156 Title of the work: Dependence on Yb³⁺ concentration of the Ho³⁺ upconversion dynamics in fluoroindate glasses.

Type of event: Conference

Authors (by signature order): J. Méndez-Ramos, I. **Type of participation:** 'Participatory - poster

R. Martín, V. Lavín, U. R. Rodríguez-Mendoza; V. D. Rodríguez and P. Núñez



End date: 27/03/2000,

En: Rencontre Franco-Espagnole. Bourdeaux, pp. 23/03/2000. (France): Comité Rencontre Franco-Espagnole,

- 157 Title of the work:** Optical properties of Eu³⁺ ions in glass ceramics for laser applications
Type of event: Conference
Authors (by signature order): J. Méndez-Ramos, V. Lavín, I. R. Martín, U. R. Rodríguez-Mendoza, V. D. Rodríguez, P. Núñez; A. D. Lozano Gorrín
Type of participation: 'Participatory - poster
End date: 27/03/2000,
En: Rencontre Franco-Espagnole. Bourdeaux, pp. 23/03/2000. (France): Comité Rencontre Franco-Espagnole,
- 158 Title of the work:** Red to blue photon avalanche upconversion in Tm³⁺ doped laser materials.
Type of event: Conference
Authors (by signature order): M.-F. Joubert, I. R. Martín, G. Boulon, S. Guy; Y. Guyot and V. D. Rodríguez
Type of participation: 'Participatory - poster
End date: 27/03/2000,
En: Rencontre Franco-Espagnole. Bourdeaux, pp. 23/03/2000. (France): Comité Rencontre Franco-Espagnole,
- 159 Title of the work:** Radiative properties of Saharan mineral dust measured using neodimium:yttrium-aluminium-garnet (532 nm) backscatter lidar.
Authors (by signature order): J. P. Díaz, F. J. Exposito, I. R. Martín and R. Barrena
Type of participation: 'Participatory - poster
End date: 30/09/1998,
En: Air Pollution VI. Génova, pp. 28/09/1998. (Italy): Comité Air Pollution,
- 160 Title of the work:** Spectroscopy of rare earths ions in glasses for laser applications
Type of event: Conference
Authors (by signature order): V. D. Rodríguez(*), V. Lavín, I. R. Martín, U. R. Rodríguez-Mendoza
Type of participation: Participatory - invited/keynote talk
End date: 16/12/1997,
En: Spanish-Israeli Workshop on Solid State Lasers. Kibbutz Ein Gedi, pp. 14/12/1997. (Israel): Comité Workshop Hispano-Israelí,
- 161 Title of the work:** Fluorescence line narrowing in Eu³⁺ doped fluoroindate glasses
Type of event: Conference
Authors (by signature order): V. Lavín, V. D. Rodríguez, U. R. Rodríguez-Mendoza and I. R. Martín
Type of participation: 'Participatory - poster
End date: 18/09/1997,
En: International Conference on f Elements (ICFE3). París, pp. 14/09/1997. (France): Centre National de la Recherche Scientifique,
- 162 Title of the work:** Upconversion dynamics in Yb³⁺-Ho³⁺ Doped Fluoroindate glasses.
Type of event: Conference
Authors (by signature order): I. R. Martín, V. D. Rodríguez, V. Lavín and U. R. Rodríguez-Mendoza
Type of participation: 'Participatory - poster
End date: 18/09/1997,



En: International Conference on f Elements (ICFE3). París, pp. 14/09/1997. (France): Centre National de la Recherche Scientifique,

163 Title of the work: Fano Antiresonances of Cr³⁺ in Alkaline Disilicate Glasses.

Type of event: Conference

Authors (by signature order): U. R.

Rodríguez-Mendoza, V. D. Rodríguez, V. Lavín, I. R. Martín and P. Nuñez

Type of participation: 'Participatory - poster

End date: 12/09/1997,

En: Fourth International School on Excited States of Transitions Elements. Duszniaki Zdroj, pp. 06/09/1997. (Poland): Polish Academy of Sciences and the State Committee for Scientific Research of Poland,

164 Title of the work: Ultraviolet and Blue Upconversion Emissions in Yb³⁺-Tm³⁺ Doped Fluoroindate Glasses.

Type of event: Conference

Authors (by signature order): I. R. Martín, V. D.

Rodríguez, V. Lavín and U. R. Rodríguez-Mendoza

Type of participation: 'Participatory - poster

End date: 12/09/1997,

En: Fourth International School on Excited States of Transitions Elements. Duszniaki Zdroj, pp. 06/09/1997. (Poland): Polish Academy of Sciences and the State Committee for Scientific Research of Poland,

165 Title of the work: Upconversion dynamics in Er³⁺ doped fluoroindate glasses

Type of event: Conference

Authors (by signature order): I. R. Martín, P. Vélez, **Type of participation:** 'Participatory - poster

V. D. Rodríguez, U. R. Rodríguez-Mendoza, V. Lavín

End date: 12/09/1997,

En: Fourth International School on Excited States of Transitions Elements. Duszniaki Zdroj, pp. 06/09/1997. (Poland): Polish Academy of Sciences and the State Committee for Scientific Research of Poland,

166 Title of the work: Kinetics of transfer and back transfer in Yb³⁺-Er³⁺ codoped fluorindate glasses.

Type of event: Conference

Authors (by signature order): I. R. Martín, V. D.

Rodríguez, V. Lavín and U. R. Rodríguez-Mendoza

Type of participation: 'Participatory - poster

Legal deposit: Czech Republic

End date: 23/08/1996,

Praga. En: ICL '96 International Conference on Luminescence. pp. 18/08/1996. Faculty of Mathematics and Physics and Inst. of Physics,

167 Title of the work: Site distribution in Cr³⁺ and Cr³⁺-Tm³⁺ doped alkaline silicate glasses

Type of event: Conference

Authors (by signature order): V. D. Rodríguez, U.

R. Rodríguez-Mendoza, I. R. Martín, V. Lavín, P.

Núñez

Type of participation: 'Participatory - poster

Legal deposit: Czech Republic

End date: 23/08/1996,

Praga. En: ICL '96 International Conference on Luminescence. pp. 18/08/1996. Faculty of Mathematics and Physics and Inst. of Physics,



- 168 Title of the work:** Site selective study in Eu³⁺ doped fluorozirconate glasses and glass-ceramics.
Type of event: Conference
Authors (by signature order): V. Lavín, V. D. Rodríguez, I. R. Martín and U. R. Rodríguez-Mendoza
Type of participation: 'Participatory - poster
Legal deposit: Czech Republic
End date: 23/08/1996,
Praga. En: ICL´96 International Conference on Luminescence. pp. 18/08/1996. Faculty of Mathematics and Physics and Inst. of Physics,
- 169 Title of the work:** Excited state dynamics in Yb³⁺-Ho³⁺ in fluorindate glasses.
Type of event: Conference
Authors (by signature order): I. R. Martín, V. D. Rodríguez, M. Morales, U. R. Rodríguez-Mendoza and V. Lavín
Type of participation: 'Participatory - poster
Legal deposit: Poland
End date: 05/09/1994,
Kudowa-Zdroj. En: Third International School of Excited States of Transitions Elements. pp. 30/08/1994. Institute of Low Temperature of Wroclaw,
- 170 Title of the work:** Optical Spectroscopy of Cr³⁺ and Cr³⁺-Tm³⁺ in alkaline silicate glasses.
Type of event: Conference
Authors (by signature order): U. R. Rodríguez-Mendoza, V. D. Rodríguez, V. Lavín, I. R. Martín, P. Nuñez
Type of participation: 'Participatory - poster
Legal deposit: Poland
End date: 05/09/1994,
Kudowa-Zdroj. En: Third International School of Excited States of Transitions Elements. pp. 30/08/1994. Institute of Low Temperature of Wroclaw,
- 171 Title of the work:** Optical properties of Eu³⁺ and Ho³⁺ in fluoride glasses
Type of event: Conference
Authors (by signature order): V. Lavín, V. D. Rodríguez, I. R. Martín, U. R. Rodríguez-Mendoza, I. Szabó, Z. E. Rasztoivts
Type of participation: 'Participatory - poster
Legal deposit: Poland
End date: 05/09/1994,
Kudowa-Zdroj. En: Third International School of Excited States of Transitions Elements. pp. 30/08/1994. Institute of Low Temperature of Wroclaw,
- 172 Title of the work:** Energy transfer and up-conversion in Yb³⁺-Tm³⁺ codoped fluorindate glasses
Type of event: Conference
Authors (by signature order): V. D. Rodríguez, I. R. Martín, R. Alcalá and R. Cases
Type of participation: 'Participatory - poster
End date: 08/07/1994,
En: EURODIM 94 (Seventh Europhysical conference on defects in insulating materials). Lyon, pp. 05/07/1994. (France): University Lyon 1,



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CURRÍCULUM VITAE NORMALIZADO

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- 173 Title of the work:** Site Selective spectroscopy of Eu^{3+} and Eu^{3+} - Ho^{3+} doped glasses
Type of event: Conference
Authors (by signature order): V. D. Rodríguez, V. Lavín, U. R. Rodríguez-Mendoza, I. R. Martín, P. Núñez
Type of participation: 'Participatory - poster
End date: 08/07/1994,
En: EURODIM 94 (Seventh Europhysical conference on defects in insulating materials). Lyon, pp. 05/07/1994. (France): University Lyon 1,
- 174 Title of the work:** Luminescence of Cr^{3+} and Cr^{3+} - Tm^{3+} in lithium silicate glasses
Type of event: Conference
Authors (by signature order): U. R. Rodríguez-Mendoza, V. D. Rodríguez, V. Lavín, I. R. Martín, P. Núñez
Type of participation: 'Participatory - poster
End date: 13/08/1993,
En: ICL'93 International Conference on Luminescence. Storrs, pp. 09/08/1993. (United States of America): University of Connecticut,
- 175 Title of the work:** Optical spectroscopy of Eu^{3+} and Eu^{3+} - Ho^{3+} in borate glasses
Type of event: Conference
Authors (by signature order): V. Lavín, V. D. Rodríguez, U. R. Rodríguez-Mendoza, I. R. Martín, P. Núñez
Type of participation: 'Participatory - poster
End date: 13/08/1993,
En: ICL'93 International Conference on Luminescence. Storrs, pp. 09/08/1993. (United States of America): University of Connecticut,
- 176 Title of the work:** Cross relaxation of Tb^{3+} ions in ZnF_2 - CdF_2 based glasses. LUGAR: Madrid
Authors (by signature order): I. R. Martín, V. D. Rodríguez, R. Alcalá and R. Cases
Type of participation: 'Participatory - poster
End date: Boletín de la Sociedad Española de Cerámica y Vidrio
En: XVI International Congress on Glass. pp. 10/1992. SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO,
- 177 Title of the work:** Cross relaxation for Tm^{3+} ions in indium based glasses. LUGAR: Perros-Guirec. Brittany. France.
Authors (by signature order): I. R. Martín, V. D. Rodríguez, R. Alcalá and R. Cases
Type of participation: 'Participatory - poster
End date: 24/09/1992,
En: 8 Th International Symposium on Halide Glasses.. Perros Guirec, pp. 22/09/1992. (France): ISHG Committee,
- 178 Title of the work:** Espectroscopía óptica de iones magnéticos en sólidos.
Type of event: Conference
Authors (by signature order): V. D. Rodríguez(*), I. R. Martín, V. Lavín y U. R. Rodríguez-Mendoza
Type of participation: Participatory - invited/keynote talk
End date: 30/05/1992,
En: V Symposium del G.E.C.. Puerto de la Cruz, pp. 24/05/1992. (Spain): Grupo Especializado en Cristalografía,



- 179 Title of the work:** Optical properties and Energy Transfer among 4f ions on Fluorzincate Glasses.
Authors (by signature order): V. D. Rodríguez, I. R. Martín, R. Alcalá and R. Cases
Type of participation: 'Participatory - poster'
End date: 08/11/1991,
En: Third International Workshop on Non-Crystalline Solids.. Huelva, pp. 05/11/1991. Dpto. Física de la Materia condensada de la Universidad de Sevilla y CSIC,
- 180 Title of the work:** Espectroscopía de iones Sm³⁺ y Tb³⁺ en vidrios fluoruros. Dependencia con la concentración. LUGAR: Valladolid
Authors (by signature order): I. R. Martín; V.D. Rodríguez; R. Alcalá
Type of participation: 'Participatory - poster'
End date: 27/09/1991,
En: XXIII Reunión Bienal de la Real Sociedad Española de Física. Valladolid, pp. 23/09/1991. Real Sociedad Española. GEFES de Física. GEFES. CARÁCTER: Nacional,

R&D management and participation in scientific committees

Organization of R&D activities

- 1 Title of the activity:** Spectral Shaping for biomedical and energy applications (SHIFT)
Type of activity: Congreso
End date: 17/11/2017
City of event: S/C de Tenerife, Spain
Convening entity: Comité Shift
Type of participation: Organiser
Start-End date: 13/11/2017 - 17/11/2017
- 2 Title of the activity:** Science in the XXI Century: Nanomaterials for Technological Applications (La ciencia en el Siglo XXI: Nanomateriales para Aplicaciones Tecnológicas)
Type of activity: Seminar
End date: 10/06/2016
Convening entity: Universidad de La Laguna
Type of entity: University
Type of participation: Organiser
Start-End date: 06/06/2016 - 10/06/2016
- 3 Title of the activity:** Science in the XXI Century: Materials for Technological Applications (La ciencia en el Siglo XXI: Materiales para Aplicaciones Tecnológicas)
Type of activity: Seminar
End date: 06/09/2012
Convening entity: Universidad de La Laguna
Type of entity: University
Type of participation: Organiser
Start-End date: 26/07/2012 - 06/09/2012
- 4 Title of the activity:** Science in the XXI Century: New Materials (La ciencia en el Siglo XXI: Nuevos Materiales)
Type of activity: Seminar
End date: 06/06/2010
Convening entity: Universidad de La Laguna
Type of entity: University
Type of participation: Organiser
Start-End date: 01/06/2010 - 06/06/2010
Duration: 4 days
- 5 Title of the activity:** Science in the XXI Century: Nanomaterials (La ciencia en el Siglo XXI: Nanomateriales)
Type of activity: Seminar
End date: 23/06/2009



Convening entity: Universidad de La Laguna

Type of participation: Organiser

Start-End date: 16/06/2009 - 23/06/2009

Duration: 4 days

- 6** **Title of the activity:** 9Th International Conference on laser ablation (Cola07)
Type of activity: Conferencia **End date:** 28/09/2007
City of event: Arona (S/C de Tenerife), Spain
Convening entity: Consejo Superior de Investigaciones Científicas **Type of entity:** State agency
Type of participation: Comité Local
Start-End date: 24/09/2007 - 28/09/2007

- 7** **Title of the activity:** 16Th International Conference on Dynamical Excited States of Solids
Type of activity: National Committee **End date:** 22/06/2007
Convening entity: Comité del "Dynamical Excited States of Solids"
City convening entity: Segovia, Spain
Start-End date: 17/06/2007 - 22/06/2007

R&D management

- 1** **Name of the activity:** Secretary of the Physics Department (University of La Laguna, Spain)
Performed tasks: Secretary (actually)
Entity: University of Laguna
Entity: University of Laguna
- 2** **Name of the activity:** Director of the Physics Department of the University of La Laguna (from 20/04/2015 until 19/01/2020))
Performed tasks: Director
Entity: University of La Laguna
Start date: 20/04/2015 **Duration:** 4 years - 10 months
Entity: University of La Laguna
- 3** **Name of the activity:** Secretary of the "Institute of Materials and Nanotechnology" (IMN) of The University of La Laguna (10/01/2013 until 13/03/2017)
Performed tasks: Secretary
Entity: University of La Laguna
Start date: 10/01/2013 **Duration:** 4 years - 2 months
Entity: University of La Laguna
- 4** **Name of the activity:** Director of Innovation, Transfer and Relations with the company of the University of La Laguna (18-6-2007 until 9-5-2011)
Type of management: Management of body
Performed tasks: Director
City of entity: Spain
Entity: University of La Laguna
Start date: 18/06/2007 **Duration:** 3 years - 11 months
Entity: University of La Laguna



- 5** **Name of the activity:** Secretary of the general Research Support Services of the University of La Laguna, www.segai.ull.es (18-6-2007 until 9-5-2011)
Performed tasks: Secretary
Entity: University of La Laguna
Start date: 18/06/2007 **Duration:** 3 years - 11 months
Entity: University of La Laguna
- 6** **Name of the activity:** Principal Coordinator of the Spanish National Research Projects Mat2004-06868-C02-01 (Study at High Pressure of nanocrystalline materials doped with luminescent ions) and Mat2004-06868-C02-02 (Hydrothermal Synthesis and structural-microstructural characterization of new crystalline materials with optical interest)
Type of management: Management of R&D&I actions and projects
Performed tasks: Principal coordinador
Entity: Universidad de La Laguna **Type of entity:** University
Start date: 01/01/2004 **Duration:** 4 years - 5 months
Entity: Universidad de La Laguna
- 7** **Name of the activity:** Deputy Director of the Fundamental and Experimental Physics, Electronics and systems Department
Performed tasks: Deputy Director
Entity: Universidad de La Laguna **Type of entity:** University
Start date: 20/06/2003 **Duration:** 2 years - 7 months - 28 days
Entity: Universidad de La Laguna

Other achievements

Stays in public or private R&D centres

- 1** **Entity:** Dpto, de Física de Materiales. Universidad Autónoma de Madrid
City of entity: Madrid, Spain
Goals of the stay: Post-doctoral
Start-End date: 04/05/2000 - 03/06/2000
Provable tasks: Spectroscopy and laser properties in nonlinear media for the development of compact lasers in the visible.
- 2** **Entity:** Laboratoire de Physico-Chimie des Materiaux Luminescent. Universidad Claude-Bernard Lyon I.
City of entity: Lyon, France
Goals of the stay: Post-doctoral
Start-End date: 14/06/1999 - 14/08/1999
Provable tasks: Photon avalanche upconversion processes in different materials
- 3** **Entity:** Laboratoire de Physico-Chimie des Materiaux Luminescent. Universidad Claude-Bernard Lyon I.
City of entity: Lyon, France
Goals of the stay: Post-doctoral
Start-End date: 01/05/1998 - 31/07/1998
Provable tasks: Spectroscopic properties of laser materials.
- 4** **Entity:** Dpto, de Física de la Materia Condensada. Universidad Zaragoza
City of entity: Madrid, Spain
Goals of the stay: Doctorate



Start-End date: 15/10/1991 - 15/11/1991

Provable tasks: Obtaining fluoride glasses doped with 4f ions and their spectroscopic characterization from optical absorption and photoluminescence measurements. Study of the energy transfer processes between the different doping ions

Obtained grants and scholarships

- 1 Name of the grant:** GRANT FOR A ONE-MONTH STAY (4/05/ 2000- 3/06/2000) in the laboratory of the Laser Spectroscopy Group of the Department of Material Physics of the Autonoma University of Madrid for the study of Laser Spectroscopy and Laser Properties in non-linear media for the development of compact lasers in the Visible "(BOC 33, March 15, 2000)
Aims: Post-doctoral
Awarding entity: Gobierno de Canarias
Conferral date: 2000
- 2 Name of the grant:** GRAN FOR A STAY OF TWO MONTHS (06/14/1999 - 08/08/1999) IN THE LABORATOIRE DE PHYSICO-CHIMIE DES MATERIAUX LUMINESCENTS "(LYON, FRANCE) FOR THE STUDY OF PHOTON AVALANCHE UPCONVERSION PROCESSES IN DIFFERENT MATERIALS" (BOC 67, May 26, 1999)
Aims: Post-doctoral
Awarding entity: Gobierno de Canarias
Conferral date: 1999
- 3 Name of the grant:** GRANT FOR A THREE MONTH STAY (1/05 /1998-31/07/1998) IN THE LABORATOIRE DE PHYSICO-CHIMIE DES MATERIAUX LUMINESCENTS "(LYON, FRANCE) FOR THE STUDY IN SPECTROSCOPIC PROPERTIES OF LASER MATERIALS" (BOC 49, April 22, 1998)
Aims: Post-doctoral
Awarding entity: Gobierno de Canarias
Conferral date: 1998
- 4 Name of the grant:** GRAN FOR A ONE-MONTH STAY (10/15/ 1991-15/11/1991) IN THE DEPARTMENT OF CONDENSED PHYSICS OF THE UNIVERSITY OF ZARAGOZA FOR A SPECTROSCOPIC STUDY IN FLUORIDE GLASSES (BOC 84, June 26, 1991)
Aims: Pre-doctoral
Awarding entity: Gobierno de Canarias
Conferral date: 1991

Prizes, mentions and distinctions

Description: AWARD TO THE BEST THESIS OF THE FACULTY OF PHYSICS OF THE UNIVERSITY OF LA LAGUNA, SHARED WITH DR. M^a Monserrat Villar Martín, FROM THE YEARS 1995-1996.

Awarding entity: Facultad de Física

Type of entity: University

City awarding entity: La Laguna, Canary Islands, Spain

Conferral date: 1996



Periods of research activity

Nº of recognized periods: 4

Certifying entity: Ministerio de Ciencia e Innovación. **Type of entity:** Comisión Nacional Evaluadora de la Investigación

Date of recognition: 06/06/2018

Summary of other achievements

- 1 Description of the achievement:** Invited Editor of ACTA MATERIALIA TURCICA from 1/04/2017
- 2 Description of the achievement:** Invited Editor of "Sensors" (ISSN 1424-8220, IF 3.031). https://www.mdpi.com/journal/sensors/sectioneditors/optical_sensors. From 12/2019
- 3 Description of the achievement:** Referee in the Journals: ACS Applied Materials & Interfaces, Biosensor and Bioelectronics, Chemical Engineering Journal, Chemical Physics Letters, International Journal of Nanomanufacturing, ISRN Spectroscopy, Journal of the Optical Society of America B, Journal of Alloys and Compounds, Journal of Applied Physics, Journal of Luminescence, Journal of Non-Crystalline Solids, Journal of Physics B: Atom., Mol. and Opt. Physics, Journal of Physical Chemistry, Journal of Rare Earths, Journal of Solid State Chemistry, Materials Chemistry and Physics A, Materials Letters, Materials Research Bulletin, Materials Science and Engineering B, Material Science and Engineering C, Modern Physics Letters B, Physics Letter Optical Materials, Optics Express, Optics and Laser Technology, Optics Letters, Physica B-Condensed Matter, Scientific-Reports-Nature, Sensors & Actuators: B Chemical, Spectrochim. Acta Part A: Molec. and Bio. Spect. , Solid State Communications, Solid State Sciences, Vibrational Spectroscopy and Thin solid Films.