



Inocencio Rafael Martín Benenzuela

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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.

Dr. Inocencio R. Martín is Full Professor at the Department of Physics at the University of La Laguna, Spain. He achieved his Ph.D. in 1996 from the University of La Laguna. He is a member of the Laser Spectroscopy and High Pressure group and his research interests cover the optical characterization of glasses, crystals and nanocrystalline glass-ceramics doped with optically active ions. He has over 260 publications in peer reviewed journals indexed in Journal Citation Reports. Currently He is involved in optical characterization of nanoparticles and microspheres doped with rare-earth ions and their applications as optical sensors.

- **Periods of research activity evaluated positively (sexenios)** 4 (1993-1998, 1999-2005, 2006-2011, 2012-2017)
- **Supervised Thesis:** 5 (3 Doctoral Prizes)
- **Total citations:** > 6000 citas (Web of Science)
- **Average of citations/year in the last 5 years:** 120 (Web of Science)
- **Number of papers:** 268 (Web of Science)
- **Papers in first quartil (Q1):** > 130 (Web of Science)
- **H index:** 44 (Web of Science)
- **Number of communications in conferences:** > 200
- **Supervision as Referee in the following Journals:** ACS Applied Materials & Interfaces, ACS Applied Nanomaterials, Advanced Optical Materials, Advanced Materials, Biosensors and Bioelectronics, Ceramics International, Chemical Engineering Journal, Chemical Physics Letters, Chemosensors, Inorganic Chemistry Communications, 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 Materials Chemistry C, 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, Luminescence, Materials Chemistry and Physics A, Materials Letters, Materials Research Bulletin, Materials Science and Engineering B, Material Science and Engineering C, Micromachines, Modern Physics Letters B, Molecules, Nanomaterials, Nature Communications, Optical Materials, Optics Express, Optics and Laser Technology, Optics Letters, Photonics, Physica B-Condensed Matter, Physics Letters, Polymers, Scientific-Reports-Nature, Sensors, Sensors & Actuators: B Chemical, Spectrochim. Acta Part A: Molec. and Bio. Spect. , Solid State Communications, Solid State Sciences, Vibrational Spectroscopy and Thin solid Films.



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:** 5 (3 Doctoral Prizes)
- **Total citations:** > 6000 citas (Web of Science)
- **Average of citations/year in the last 5 years:** 120 (Web of Science)
- **Number of papers:** 268 (Web of Science)
- **Papers in first quartil (Q1):** > 130 (Web of Science)
- **H index:** 44 (Web of Science)
- **Number of communications in conferences:** 200
- **Supervision as Referee in the following Journals:** ACS Applied Materials & Interfaces, ACS Applied Nanomaterials, Advanced Optical Materials, Advanced Materials, Biosensors and Bioelectronics, Ceramics International, Chemical Engineering Journal, Chemical Physics Letters, Chemosensors, Inorganic Chemistry Communications, 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 Materials Chemistry C, 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, Light: Science and Applications, Luminescence, Materials Chemistry and Physics A, Materials Letters, Materials Research Bulletin, Materials Science and Engineering B, Material Science and Engineering C, Micromachines, Modern Physics Letters B, Molecules, Nanomaterials, Nature Communications, Optical Materials, Optics Express, Optics and Laser Technology, Optics Letters, Photonics, Physica B-Condensed Matter, Physics Letters, Polymers, Scientific-Reports-Nature, Sensors, Sensors & Actuators: B Chemical, Spectrochim. Acta Part A: Molec. and Bio. Spect. , Solid State Communications, Solid Sate Sciences, Talanta, Thin solid Films and Vibrational Spectroscopy.



Inocencio Rafael Martín Benenzuela

Surname(s): Martín Benenzuela
Name: Inocencio Rafael
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Date of birth: 16/02/1967
Gender: Male
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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 - Luminescent
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

- Project title:** Optical Sensors based on Luminescent Materials containing Transition and Lanthanides Ions. In progress.
Type of project: Doctoral thesis
Co-director of thesis: Drs. I. R. Martin and M. Runowski
Entity: Universidad de La Laguna **Type of entity:** University
Student: Christian Hernández Álvarez
Date of reading: 2024
- Project title:** Study and optical characterization of resonant cavities with luminescent techniques (Estudio y caracterización óptica de cavidades resonantes con técnicas luminiscentes).
Type of project: Doctoral thesis
Co-director of thesis: Drs. F. Lahoz y I. R. Martin
Entity: Universidad de La Laguna **Type of entity:** University
Student: Kevin Soler Carracedo
Date of reading: 27/07/2023



- 3** **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
- 4** **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
- 5** **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
European doctorate: Yes
- 6** **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
- 7** **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:** 3D MICRO-SENSORS NANOFABRICATED BY LASER FOR EXTREME ENVIRONMENTS (MICRO-SENSORES 3D NANOFABRICADOS POR LASER PARA AMBIENTES EXTREMOS)
Type of project: Research and development, including transfer
Entity where project took place: Universidad de La Laguna **Type of entity:** University
Name principal investigator (PI, Co-PI....): A. Ródenas (IP) y L. L. Martín (Co-IP)
Nº of researchers: 6
Funding entity or bodies:
Ministerio de Ciencia e Innovación.
Code according to the funding entity: PID2019-107335RA-I00
Start-End date: 01/06/2020 - 01/03/2024
Total amount: 120.395 €



- 2** **Name of the project:** STRUCTURAL AND OPTICAL CORRELATIONS IN FUNCTIONAL MACRO- AND NANO-MATERIALS WITH ACTIVE IONS UNDER EXTREME PRESSURE AND/OR TEMPERATURE CONDITIONS (CORRELACIONES ESTRUCTURALES Y OPTICAS EN MACRO- Y NANO-MATERIALES FUNCIONALES CON IONES ACTIVOS BAJO CONDICIONES EXTREMAS DE PRESION Y/O TEMPERATURA)
Type of project: Research and development, including transfer
Entity where project took place: Universidad de La Laguna **Type of entity:** University
Name principal investigator (PI, Co-PI....): J. González-Platas (IP) y U. R. Rodríguez-Mendoza (Co-IP)
Nº of researchers: 4
Funding entity or bodies: Ministerio de Ciencia e Innovación.
Code according to the funding entity: PID2019-106383GB-C44
Start-End date: 01/06/2020 - 01/03/2024
Total amount: 108.900 €
- 3** **Name of the project:** NANOCAN 3D digital nanofabrication for the competitive advantage of the Canary Islands (EIS 2021 10)
Type of project: Research and development, including transfer
Entity where project took place: Universidad de La Laguna **Type of entity:** University
Name principal investigator (PI, Co-PI....): A. Rodenas (IP)
Nº of researchers: 6
Funding entity or bodies: ACIISI (Gobierno de Canarias)
Code according to the funding entity: EIS 2021 10
Start-End date: 01/01/2022 - 31/12/2023
Total amount: 98.750 €
- 4** **Name of the project:** SENECA: Pushing smart 3D digital manufacturing and enabling nanoengineering in the canaries (Impulsando la fabricación digital 3D inteligente y la nanoingeniería facilitadora en Canarias)
Type of project: Research and development, including transfer
Entity where project took place: Universidad de La Laguna **Type of entity:** University
Name principal investigator (PI, Co-PI....): A. Rodenas (IP)
Nº of researchers: 8
Funding entity or bodies: Consejería de Economía, Conocimiento y Empleo (Gobierno de Canarias).
Code according to the funding entity: PROID2021010102
Start-End date: 01/05/2021 - 30/04/2023
Total amount: 68.900 €
- 5** **Name of the project:** DESIGN AND DEVELOPMENT OF OPTICAL SENSORS FOR WATER QUALITY CONTROL (DISEÑO Y DESARROLLO DE SENSORES ÓPTICOS PARA CONTROL DE CALIDAD DE AGUAS GRISES)
Type of project: Research and development, including transfer
Entity where project took place: Universidad de La Laguna **Type of entity:** University
Name principal investigator (PI, Co-PI....): F. Lahoz (IP)
Nº of researchers: 6

**Funding entity or bodies:**

Consejería de Economía, Conocimiento y Empleo (Gobierno de Canarias).

Code according to the funding entity: ProID2020010067

Start-End date: 01/01/2020 - 30/09/2022

Total amount: 69.800 €

- 6 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 **Type of entity:** University

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 €

- 7 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 **Type of entity:** University

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 €

- 8 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 €

- 9 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

Type of entity: University



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 €

10 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 €

11 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 **Type of entity:** University

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 €

12 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:** University

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 €



- 13** **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 €
- 14** **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 **Type of entity:** University
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 €
- 15** **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:** University
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 €
- 16** **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 **Type of entity:** University
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 €

17 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 **Type of entity:** University

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 €

18 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 **Type of entity:** University

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 €

19 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 **Type of entity:** University

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 €

20 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 €

21 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 €

22 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

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 €

23 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 **Type of entity:** University

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 €

24 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

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 €



- 25** **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 **Type of entity:** University
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 €
- 26** **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
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 €
- 27** **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 **Type of entity:** University
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 €
- 28** **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 **Type of entity:** University
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 €



- 29** **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:** University
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 €
- 30** **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 **Type of entity:** University
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 €
- 31** **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 **Type of entity:** University
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 €
- 32** **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 **Type of entity:** University
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 €



- 33 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 **Type of entity:** University
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 between 'Cabildo de Gran Canaria' and University of La Laguna for the research project 'Actualización de los sistemas de monitorización del estado de conservación de Cueva Pintada'
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
Nº of researchers: 2
Start date: 02/11/2022 **Duration:** 1 year
Total amount: 12.358,5 €
- 2 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 €
- 3 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 €
- 4 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 €**5 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 Xujun Qiu; Teng Zheng; Marcin Runowski; Przemysław Woźny; Inocencio R. Martín; Kevin Soler-Carracedo; Claudia Espinosa Piñero; Sergei Lebedkin; Olaf Fuhr; Stefan Bräse. Constructing [2.2]Paracyclophane-Based Ultrasensitive Optical Fluorescent-Phosphorescent Thermometer with Cucurbit[8]uril Supramolecular Assembly. *Advanced Functional Materials*. 2024.**DOI:** 10.1002/adfm.202313517**Type of production:** Scientific paper**Format:** Journal**Impact source:** ISI**Category:** Science Edition - PHYSICS, CONDENSED MATTER**Impact index in year of publication:** 19**Journal in the top 25%:** Yes**Position of publication:** 6**No. of journals in the cat.:** 67**2** Ahmed Souemti; Aymen Selmi; Inocencio Rafael Martín; Antonio Diego Lozano-Gorrín; Adel Megriche. Enhancing luminescence and dielectric properties in ceramics: rare-earth modification of KMg₄(PO₄)₃-based materials. *Journal of Materials Science: Materials in Electronics*. 35 - 6, 2024.**DOI:** 10.1007/s10854-024-12213-3**Type of production:** Scientific paper**Format:** Journal**Impact source:** ISI**Category:** Science Edition - PHYSICS, APPLIED**Impact index in year of publication:** 2.8**Journal in the top 25%:** No**Position of publication:** 75**No. of journals in the cat.:** 160**3** M. Runowski; Wozny Przemyslaw; I. R. Martin; K. Soler-Carracedo; T. Zheng; H. Hemmerich; F. Rivera-López; J. Moszczynski; P. Kulpinski; S. Feldmann. Multimodal Optically Nonlinear Nanoparticles Exhibiting Simultaneous Higher Harmonics Generation and Upconversion Luminescence for Anticounterfeiting and 8-bit Optical Coding. *Advanced Functional Materials*. 34 - 1, pp. 2307791. WILEY-VCH VERLAG GMBH, 2024.**DOI:** 10.1002/adfm.202307791



Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 19

Position of publication: 6

Category: Condensed Matter Physics

Journal in the top 25%: Yes

No. of journals in the cat.: 67

- 4** M.A. Vega-Pallauta; R. Castillo; K. Soler-Carracedo; I. R. Martín. Near-infrared to visible up-conversion in Er³⁺ doped LaAlO₃ phosphors and their assessment as an optical temperature sensor. *Journal of Luminescence*. 13 - 1, pp. 14819. Elsevier, 2024.

DOI: 10.1016/j.jlumin.2023.120377

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 3.6

Position of publication: 31

Category: Science Edition - OPTICS

Journal in the top 25%: No

No. of journals in the cat.: 100

- 5** Mouna Fhoula; Kamel Saidi; Christian Hernández-Álvarez; Kevin Soler-Carracedo; Mohamed Dammak; Inocencio R. Martín. Unlocking the luminescent potential of Pr³⁺/Yb³⁺ Co-doped Y₂Mo₄O₁₅ for advanced thermometry applications. *Journal of Alloys and Compounds*. 979, 2024.

DOI: 10.1016/j.jallcom.2024.173537

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 6.2

Position of publication: 8

Format: Journal

Category: Science Edition - METALLURGY & METALLURGICAL ENGINEERING

Journal in the top 25%: Yes

No. of journals in the cat.: 79

- 6** J. Llanos; D. Espinosa; I. Brito; M. Vega; I. R. Martín. Polymorphism and up-conversion photoluminescence properties of Y₂WO₆ doped with Yb³⁺/Er³⁺ under excitation at 975 nm. *Journal of Luminescence*. 263, pp. 120088. 26/12/2023.

DOI: 10.1016/j.jlumin.2023.120088

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 3.6

Position of publication: 31

Category: Science Edition - OPTICS

Journal in the top 25%: No

No. of journals in the cat.: 100

- 7** K. Saidi; I. Kachou; K. Soler-Carracedo; M. Dammak; I. R. Martín. Ba₂YV₃O₁₁ Er³⁺/Yb³⁺ Nanostructures for Temperature Sensing in the Presence of Bismuth Ions. *ACS Applied Nanomaterials*. 6 - 19, pp. 17681 - 17690. 2023.

DOI: 10.1021/acsanm.3c02911

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 5.9

Position of publication: 98

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: No

No. of journals in the cat.: 344

- 8** F. Ayachi; K. Saidi; K. Soler-Carracedo; M. Dammak; I. R. Martín. Coupled and non-coupled high sensitivity multi-mode ratiometric thermometry of Ho³⁺/Er³⁺/Yb³⁺ tri-doped YP_{0.5}V_{0.5}O₄ phosphors. *Journal of Alloys Compounds*. 961 - 25, pp. 171146. 2023.

DOI: 10.1016/j.jallcom.2023.171146

Type of production: Scientific paper

Impact source: ISI



Impact index in year of publication: 6.2

Position of publication: 8

Category: Science Edition - METALLURGY & METALLURGICAL ENGINEERING

Journal in the top 25%: Yes

No. of journals in the cat.: 79

- 9** J. Rybusinski; T. Fas; P. Martin-Ramos; V. Lavín; J. Szczytko; J. Suffczynski; I. R. Martin; J. Martin-Gil; M. R. Silva; B. C. Camargo. Erbium-based multifunctional compounds as molecular microkelvin-tunable driving-sensing units. *Journal of Magnetism and Magnetic Materials*. 580, pp. 170903. 2023.

DOI: 10.1016/j.jmmm.2023.170903

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 2.7

Position of publication: 38

Category: Condensed Matter Physics

Journal in the top 25%: No

No. of journals in the cat.: 67

- 10** G. Brito-Santos; C. Hernández-Rodríguez; B. Gil-Hernández; J. Sanchiz; I. R. Martín; B. González-Díaz; R. Guerrero-Lemus. Exploring Ln(III)-Ion-Based Luminescent Species as Down-Shifters for Photovoltaic Solar Cells. *Materials*. 16 - 14, 2023.

DOI: 10.3390/ma16145068

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 3.4

Position of publication: 29

Category: Condensed Matter Physics

Journal in the top 25%: No

No. of journals in the cat.: 67

- 11** T. Zheng; M. Runowski; J.P. Xue; L. H. Luo; U. R. Rodríguez-Mendoza; V. Lavín; I. R. Martín; P. Rodríguez-Hernández; A. Muñoz; P. Du. Giant Pressure-Induced Spectral Shift in Cyan-Emitting Eu²⁺-Activated Sr₈Si₄O₁₂Cl₈ Microspheres for Ultrasensitive Visual Manometry. *Advanced Functional Materials*. 33 - 26, pp. 2214663. 2023.

DOI: 10.1002/adfm.202214663

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 19

Position of publication: 9

Category: Science Edition - NANOSCIENCE & NANOTECHNOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 108

- 12** T. Zheng; M. Runowski; I. R. Martin; K. Soler-Carracedo; L. Piang; M. Skwierczynska; M. Sojka; J. Barzowska; S. Mahlik; H. Hanoch; F. Rivera-Lopez; P. Kulpinski. Mechanoluminescence and Photoluminescence Heterojunction for Superior Multimode Sensing Platform of Friction, Force, Pressure, and Temperature in Fibers and 3D-Printed Polymers. *Advanced Materials*. 35 - 40, pp. 2304140. 2023.

DOI: 10.1002/adma.202304140

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 29,4

Position of publication: 3

Category: Condensed Matter Physics

Journal in the top 25%: Yes

No. of journals in the cat.: 67

- 13** C. Hernández-Alvarez; G. Brito-Santos; I. R. Martín; J. Sanchiz; K. Saidi; K. Soler-Carracedo; L. Marciniak; M. Runowski. Multifunctional optical sensing platform of temperature, pressure (vacuum) and laser power density: NaYF₄: Gd³⁺, Yb³⁺, Er³⁺ nanomaterial as luminescent thermometer, manometer and power meter. *Journal of Materials Chemistry C*. 11 - 30, pp. 10221 - 10229. 2023.

DOI: 10.1039/d3tc01712e



Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 6.4

Position of publication: 86

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

No. of journals in the cat.: 344

- 14** S. Ryszynska; I. R. Martín; T. Grzyb. Near-infrared optical nanothermometry via upconversion of Ho³⁺-sensitized nanoparticles. *Scientific Reports*. 13 - 1, pp. 14819. 2023.

DOI: 10.1038/s41598-023-42034-z

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 4.6

Position of publication: 22

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: No

No. of journals in the cat.: 73

- 15** M. Runowski; D. Marcinkowski; K. Soler-Carracedo; A. Gorczynski; E. Ewert; P. Wozny; I. R. Martín. Noncentrosymmetric Lanthanide-Based MOF Materials Exhibiting Strong SHG Activity and NIR Luminescence of Er³⁺: Application in Nonlinear Optical Thermometry. *ACS Applied Materials and Interfaces*. 15 - 2, pp. 3244 - 3252. 2023.

DOI: 10.1021/acsami.2c22571

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 9,5

Position of publication: 55

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

No. of journals in the cat.: 344

- 16** K. Soler-Carracedo; T. Zheng; M. Runowski; L. Luo; I.R. Martín. Pr³⁺-doped perovskite niobate ceramics towards improving performance of optical temperature sensor by second harmonic generation (SHG) combined with lanthanide luminescence. *Ceramics International*. 49 - 9, pp. 14177 - 14182. 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85146042432&doi=10.1016%2fj.ceramint.2023.01.004&partnerID=40&md5=5b212048d11a1227af1cb50f2dd59c>>

DOI: 10.1016/j.ceramint.2023.01.004

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 5.2

Position of publication: 3

Format: Journal

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

No. of journals in the cat.: 29

- 17** K.V. Krishnaiah; P. Venkatalakshamma; K. Upendra Kumar; P. Haritha; V. Lavin; I.R. Martín; N. Ravi; H. Satish Kumar Reddy; V. Venkatramu; N.K.R. Nallabala; C. Yuvaraj. Structure, morphology, photonconversion and energy transfer characteristics of Er³⁺/Yb³⁺:BaYF₅ nanocrystals synthesized by hydrothermal method for photovoltaics. *Ceramics International*. 49 - 16, pp. 26879 - 26889. 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85160834644&doi=10.1016%2fj.ceramint.2023.05.225&partnerID=40&md5=9ea4be6002cf66f6c0185f28c32e75d>>

DOI: 10.1016/j.ceramint.2023.05.225

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 5.2

Position of publication: 3

Format: Journal

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: Yes

No. of journals in the cat.: 29

- 18** P. Woźny; K. Soler-Carracedo; N. Stopikowska; I.R. Martín; M. Runowski. Structure-dependent luminescence of Eu³⁺-doped strontium vanadates synthesized with different V : Sr ratios - application in WLEDs and ultra-sensitive optical thermometry. *Journal of Materials Chemistry C*. 11 - 14, pp. 4792 - 4807. 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85151906205&doi=10.1039%2fd2tc05341a&partnerID=40&md5=6c31e65456504705004aa90b060a78ed>>. DOI: 10.1039/d2tc05341a
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 6.4
Position of publication: 32
Format: Journal
Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: Yes
No. of journals in the cat.: 160
- 19** K. Saidi; C. Hernández-Álvarez; M. Runowski; M. Dammak; I. R. Martín. Temperature and Pressure Sensing Using an Optical Platform Based on Upconversion Luminescence in NaSrY(MoO₄)₃ Codoped with Er³⁺ and Yb³⁺ Nanophosphors. *ACS Applied Nano Materials*. 6 - 20, pp. 19431 - 19442. 2023. DOI: 10.1021/acsnm.3c04031
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 5,9
Position of publication: 48
Category: Science Edition - NANOSCIENCE & NANOTECHNOLOGY
Journal in the top 25%: No
No. of journals in the cat.: 141
- 20** T. Grzyb; I.R. Martín; R. Popescu. The use of energy looping between Tm³⁺ and Er³⁺ ions to obtain an intense upconversion under the 1208 nm radiation and its use in temperature sensing. *Nanoscale*. 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85180589523&doi=10.1039%2fd3nr04418a&partnerID=40&md5=5c87d7cbc46576c77d0953c1e418e891>>. DOI: 10.1039/d3nr04418a
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 6.7
Position of publication: 27
Format: Journal
Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: Yes
No. of journals in the cat.: 160
- 21** K. Saidi; C. Hernández-Álvarez; M. Runowski; M. Dammak; I.R. Martín. Ultralow pressure sensing and luminescence thermometry based on the emissions of Er³⁺/Yb³⁺ codoped Y₂Mo₄O₁₅ phosphors. *Dalton Transactions*. 52 - 41, pp. 14904 - 14916. 2023. Available on-line at: <<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85174488494&doi=10.1039%2fd3dt02613b&partnerID=40&md5=d828f7eaf46aa158eccc16eb441aa5>>. DOI: 10.1039/d3dt02613b
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 4
Position of publication: 7
Format: Journal
Category: Science Edition - CHEMISTRY, INORGANIC & NUCLEAR
Journal in the top 25%: Yes
No. of journals in the cat.: 42
- 22** R. Reddappa; LL Devi; P. Babu; I.R. Martin; V. Lavin; V. Venkatramu; U.R. Rodríguez-Mendoza; CK Jayasankar. Structural, morphological and photoluminescence properties of Ca₂SiO₄: Er³⁺-phosphors synthesized from agro-food waste materials. *Ceramics International*. 48, pp. 37013. 01/10/2022. DOI: 10.1016/j.ceramint.2022.08.271
Type of production: Scientific paper
Impact source: ISI



Impact index in year of publication: 5,532
Position of publication: 3

Category: Science Edition - MATERIALS SCIENCE, CERAMICS

Journal in the top 25%: Yes

No. of journals in the cat.: 30

- 23** A. Ródenas; F. Paz-Buclatin; A.C. Melián; O. De Varona; L.L. Martín; I. R. Martín. Three-dimensional fs-laser subtractive nanolithography of crystals. LASER-BASED MICRO- AND NANOPROCESSING XVI. 119890, pp. 37013. Proceedings of SPIE, 01/10/2022.

DOI: 10.1117/12.2608613

Type of production: Scientific paper

- 24** F. Paz-Buclatin; Y. Perera-Suarez; I.R. Martin; S. Ríos; A. Rodenas; L.L. Martin. Experimental and Numerical Validation of Whispering Gallery Resonators as Optical Temperature Sensors. Sensors. 22, pp. 7831. 11/09/2022.

DOI: 10.3390/s22207831

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 3,847

Position of publication: 29

Category: Science Edition - CHEMISTRY, ANALYTICAL

Journal in the top 25%: No

No. of journals in the cat.: 87

- 25** H. Benrejeb; K. Soler-Carracedo; S. Hraiech; I. R. Martin. Analysis of down conversion and back-transfer processes in Pr³⁺-Yb³⁺ co-doped phosphate glasses. Optical Materials. 131, pp. 112604. 01/09/2022.

DOI: 10.1016/j.optmat.2022.112604

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 3,754

Position of publication: 29

Category: Science Edition - OPTICS

Journal in the top 25%: No

No. of journals in the cat.: 101

- 26** T. Zheng; M. Sojka; P. Wozni; I. R. Martin; V. Lavin; E. Zych; S. Lys; P. Du; L.H. Luo; M. Runowski. Supersensitive Ratiometric Thermometry and Manometry Based on Dual-Emitting Centers in Eu²⁺/Sm²⁺-Doped Strontium Tetraborate Phosphors. Advanced Optical Materials. 10, pp. 2201055. 15/08/2022.

DOI: 10.1002/adom.202201055

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 10,050

Position of publication: 9

Category: Science Edition - OPTICS

Journal in the top 25%: Yes

No. of journals in the cat.: 101

- 27** K. Soler-Carracedo; M. Díaz-González; I. R. Martín; S. Ríos; B. Gil-Hernández; G. Brito-Santos; J. Sanchiz. Europium(III)-Doped Gadolinium(III) Complex for High-Sensitivity Temperature Sensing in the Physiological Range. Materials. 15, pp. 7501. 01/08/2022.

DOI: 10.3390/ma15217501

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 3.748

Position of publication: 85

Category: CHEMISTRY, PHYSICAL

Journal in the top 25%: No

No. of journals in the cat.: 165

- 28** G. Gil-de-Cos; M.E. Torres; C. González-Silgo; K. Soler-Carracedo; I. R. Martin; Rivera-López, F; Rodríguez-Rodríguez, S. Unexpected wide tuning of ferroelectric properties by varying the Er concentration in La_{(2-x)Er_x(MoO₄)₃ (x=0.75, 1, 1.25) solid solutions. Journal of Solid State Chemistry. 315, pp. 123462. 01/07/2022.}

DOI: 10.1016/j.jssc.2022.123462

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 3.656

Position of publication: 14

Category: CHEMISTRY, INORGANIC & NUCLEAR

Journal in the top 25%: No

No. of journals in the cat.: 46

- 29 P. Tadge; I. R. Martin; S. N. Rai; S. Sapra; T. M. Chen; Lavin, V; R. S. Yadav; S. Ray. Intense green photoluminescence and upconversion-based intrinsic optical bistability in Ho³⁺/Yb³⁺ codoped CaSc₂O₄ and upconversion in Ho³⁺/Yb³⁺ codoped CaY₂O₄ phosphors. Journal of Luminescence. 252, pp. 119261. 01/06/2022.

DOI: 10.1016/j.jlumin.2022.119261

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 4.171

Position of publication: 21

Category: Science Edition - OPTICS

Journal in the top 25%: No

No. of journals in the cat.: 118

- 30 Zheng, T; Luo, L; Du, P; Lis, S; Rodriguez-Mendoza, UR; Lavin, V; Martin, IR; Runowski, M. Pressure-triggered enormous redshift and enhanced emission in Ca₂Gd₈Si₆O₂₆:Ce³⁺ phosphors: Ultrasensitive, thermally-stable and ultrafast response pressure monitoring. Chemical Engineering Journal. 443, pp. 136414. 01/05/2022.

DOI: 10.1016/j.cej.2022.136414

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 13,273

Position of publication: 4

Category: ENGINEERING, CHEMICAL

Journal in the top 25%: Yes

No. of journals in the cat.: 143

- 31 T. Grzyb; D. Przybylska; A. Szczeszak; E. Smiechowicz; P. Kulpinski; I. R. Martin. Multifunctional cellulose fibers: Intense red upconversion under 1532 nm excitation and temperature-sensing properties. Carbohydrate Polymers. 294, pp. 119782. 04/04/2022.

DOI: 10.1016/j.carbpol.2022.119782

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 10.723

Position of publication: 2

Category: Science Edition - CHEMISTRY, ORGANIC

Journal in the top 25%: Yes

No. of journals in the cat.: 56

- 32 Brito-Santos, G; Hernández-Rodríguez, C; Gil-Hernández, B; González-Díaz, B; Martin, IR; Guerrero-Lemus, R; Sanchiz, J. Highly luminescent mixed-ligand bimetallic lanthanoid(III) complexes for photovoltaic applications. Dalton Transactions. 51, pp. 5108. 03/04/2022.

DOI: 10.1039/d1dt04248c

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 4.39

Position of publication: 8

Category: CHEMISTRY, INORGANIC & NUCLEAR

Journal in the top 25%: Yes

No. of journals in the cat.: 45

- 33 Saidi, K; Dammak, M; Soler-Carracedo, K; Martin, IR. A novel optical thermometry strategy based on emission of Tm³⁺/Yb³⁺ codoped Na₃GdV₂O₈ phosphors. Dalton Transactions. 51, pp. 5108. 02/04/2022.

DOI: 10.1039/d1dt03747a

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 4.39

Category: CHEMISTRY, INORGANIC & NUCLEAR

Journal in the top 25%: Yes

**Position of publication:** 8**No. of journals in the cat.:** 45

- 34** Zheng, T; Runowski, K; Wozny, P.; Barszcz, B; Lys, S.; Vega, M; LLanos, J; Soler-Carracedo, K; Martin, IR. Boltzmann vs. non-Boltzmann (non-linear) thermometry - Yb³⁺-Er³⁺ activated dual-mode thermometer and phase transition sensor via second harmonic generation. Journal of Alloys and Compounds. 906, pp. 164329. 01/04/2022.

DOI: 10.1016/j.jallcom.2022.164329**Type of production:** Scientific paper**Impact source:** ISI**Category:** METALLURGY & METALLURGICAL ENGINEERING**Impact index in year of publication:** 5.316**Journal in the top 25%:** Yes**Position of publication:** 6**No. of journals in the cat.:** 80

- 35** H. Benrejeb; I. R. Martin; S. Hraiech; K. Soler-Carracedo. Temperature sensor based on luminescence intensity ratio or whispering gallery modes in phosphate glass co-doped with Pr³⁺ and Yb³⁺. Optics and Laser Technology. 149, pp. 107893. 03/02/2022.

DOI: 10.1016/j.optlastec.2022.107893**Type of production:** Scientific paper**Impact source:** ISI**Category:** Optics**Impact index in year of publication:** 3.867**Journal in the top 25%:** Yes**Position of publication:** 21**No. of journals in the cat.:** 99

- 36** M. Vega; I. R. Martin; E. Cortés-Adasme; J. LLanos. Enhanced red up-conversion emission in Er³⁺/Yb³⁺ co-doped SrSnO₃ for optical temperature sensing based on thermally and non-thermally coupled levels. J. Luminescence. 244, pp. 118687. 02/02/2022.

DOI: 10.1016/j.jlumin.2021.118687**Type of production:** Scientific paper**Impact source:** ISI**Category:** Optics**Impact index in year of publication:** 3.599**Journal in the top 25%:** Yes**Position of publication:** 24**No. of journals in the cat.:** 99

- 37** H. Benrejeb; K. Soler-Carracedo; S. Hraiech; I. R. Martin. Photoluminescence and energy transfer studies in Ce³⁺-Sm³⁺ co-doped phosphate glasses. J. Luminescence. 241, pp. 118471. 01/02/2022.

DOI: 10.1016/j.jlumin.2021.118471**Type of production:** Scientific paper**Impact source:** ISI**Category:** Optics**Impact index in year of publication:** 3.599**Journal in the top 25%:** Yes**Position of publication:** 24**No. of journals in the cat.:** 99

- 38** K. Saidi; M. Dammak; K. Soler-Carracedo; I. R. Martin. Optical thermometry based on upconversion emissions in Na₃Gd(VO₄)₂:Yb³⁺-Er³⁺/Ho³⁺ micro crystals. Journal of Alloys and Compounds. 891, pp. 161993. 01/01/2022.

DOI: <https://doi.org/10.1016/j.jallcom.2021.161993>**Type of production:** Scientific paper**Impact source:** ISI**Category:** METALLURGY & METALLURGICAL ENGINEERING**Impact index in year of publication:** 5.316**Journal in the top 25%:** Yes**Position of publication:** 6**No. of journals in the cat.:** 80



- 39** H. Benrejeb; K. Soler-Carracedo; A. D. Lozano-Gorrin; S. Hraiech; I. R. Martin. Energy Transfer Studies in Tb³⁺-Yb³⁺ Co-Doped Phosphate Glasses. *Materials*. 14 - 22, pp. 161188. 01/11/2021.
DOI: DOI10.3390/ma14226782
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3.623
Position of publication: 17
Category: METALLURGY & METALLURGICAL ENGINEERING
Journal in the top 25%: Yes
No. of journals in the cat.: 80
- 40** M. A. Hernandez-Rodríguez; L. Kamada; A. Yoskikawa; J. E. Munoz-Santiuste; A. Casanovas-Melian; I. R. Martin; U. R. Rodríguez-Mendoza; V. Lavin. 1000 K optical ratiometric thermometer based on Er³⁺ luminescence in yttrium gallium garnet. *Journal of Alloys and Compounds*. 886, pp. 161188. 01/10/2021.
DOI: DOI10.1016/j.jallcom.2021.161188
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 5.316
Position of publication: 6
Category: METALLURGY & METALLURGICAL ENGINEERING
Journal in the top 25%: Yes
No. of journals in the cat.: 80
- 41** K. Soler-Carracedo; P. Estevez-Alonso; I.R. Martin; S. Rios. Improving the sensitivity of WGM pressure sensors with oxyfluoride glass microspheres. *Journal of Luminescence*. 17 - 46, pp. 118249. 01/09/2021.
DOI: DOI10.1016/j.jlumin.2021.118249
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3.599
Position of publication: 24
Category: Science Edition - OPTICS
Journal in the top 25%: Yes
No. of journals in the cat.: 99
- 42** E. Ortiz-Rivero; K. Prorok; I.R. Martin; R. Lisiecki; P. Haro-González; A. Bednardiewicz; D. Jaque. Laser Refrigeration by an Ytterbium-Doped NaYF₄ Microspinner. *Small*. 17 - 46, pp. 2103122. 01/08/2021.
DOI: DOI10.1002/smll.202103122
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 13.281
Position of publication: 7
Category: PHYSICS, CONDENSED MATTER
Journal in the top 25%: Yes
No. of journals in the cat.: 69
- 43** M. Kahlaoui; I. R. Martin; B. Benmohamed; A. Souamti; C. Chefi. Synthesis, structural characterization and luminescence properties of new Na_{0.3-x}Nd_xAl_{0.3}Si_{0.7}O_{2+delta} (0-0.1) ceramics for optical applications. *Journal of Materials Research and Technology-JMRT&T*. 13, pp. 1181 - 1190. 01/07/2021.
DOI: DOI10.1016/j.jmrt.2021.05.016
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 5.039
Position of publication: 9
Category: METALLURGY & METALLURGICAL ENGINEERING
Journal in the top 25%: Yes
No. of journals in the cat.: 80
- 44** T. Zheng; M. Runowski; I. R. Martín; S. Lis; M. Vega; J. Llanos. Nonlinear Optical Thermometry—A Novel Temperature Sensing Strategy via Second Harmonic Generation (SHG) and Upconversion Luminescence in BaTiO₃:Ho³⁺, Yb³⁺ Perovskite. *Advanced Optical Materials*. 9, pp. 2100386. 01/06/2021.
DOI: DOI10.1002/adom.202100386

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 9.926

Position of publication: 9

Category: Optics

Journal in the top 25%: Yes

No. of journals in the cat.: 99

- 45** M. Runowski; P. Wozni; I. R. Martín. Optical pressure sensing in vacuum and high-pressure ranges using lanthanide-based luminescent thermometer–manometer. *Journal of Materials Chemistry C*. 13, pp. 4643 - 4651. Royal Society of Chemistry, 07/04/2021.

DOI: DOI10.1039/d1tc00709b

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 7.393

Position of publication: 25

Category: PHYSICS, APPLIED

Journal in the top 25%: Yes

No. of journals in the cat.: 160

- 46** D. Walo-Martin; F. Paz-Buclatin; S. Ríos; I. R. Martín; L. L Martin; A. Ródenas; V. Sigaev; V. I. Savinkov; G. Shakhgildyan. Temperature Sensing with Nd³⁺ Doped YAS Laser Microresonators. *Applied Sciences-Basel*. 11, pp. 1117. 01/01/2021.

DOI: <https://doi.org/10.3390/app11031117>

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 2.474

Position of publication: 32

Category: Science Edition - ENGINEERING, MULTIDISCIPLINARY

Journal in the top 25%: No

No. of journals in the cat.: 91

- 47** A. Skripka; A. Benayas; C. D. S. Brites; I. R. Martín; L. D. Carlos; S. Lys. Inert Shell Effect on the Quantum Yield of Neodymium-Doped Near Infrared Nanoparticles: The Necessary Shield in an Aqueous Dispersion. *Nanoletters*. 20, pp. 7648. 04/12/2020.

DOI: <https://dx.doi.org/10.1021/acs.nanolett.0c03187>

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 12.727

Position of publication: 11

Category: Science Edition - PHYSICS, APPLIED

Journal in the top 25%: Yes

No. of journals in the cat.: 155

- 48** M. Runowski; P. Wozny; N. Stopikoswka; I. R. Martín; V. Lavín; S. Lys. Luminescence nanothermometer operating at very high temperature-Sensing up to 1000 K with Upconverting Nanoparticles (Yb³⁺/Tm³⁺). *ACS Applied Materials and Interfaces*. 12, pp. 43933. 04/11/2020.

DOI: <https://dx.doi.org/10.1021/acsami.0c13011>

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 8.758

Position of publication: 18

Category: Science Edition - NANOSCIENCE & NANOTECHNOLOGY

Journal in the top 25%: Yes

No. of journals in the cat.: 103

- 49** K. Soler-Carracedo; I. R. Martín; F. Lahoz; H. C. Vasconcelos; A. D. Lozano-Gorrín; L. L. Martín; F. Paz-Buclatin. Er³⁺/Ho³⁺ codoped nanogarnet as an optical FIR thermometer for a wide range of high and low temperatures. *Journal of Alloys and Compounds*. 847, pp. 156541. 01/10/2020.

DOI: 10.1016/j.jallcom.2020.156541

Type of production: Scientific paper

Impact source: ISI



Impact index in year of publication: 4.65
Position of publication: 8

Category: Science Edition - METALLURGY & METALLURGICAL ENGINEERING
Journal in the top 25%: Yes
No. of journals in the cat.: 79

- 50** R. Fartas; M. Diaf; I. R. Martín; F. Paz-Buclatin; J. P. Jouart; V. Lavín; U. Rodríguez-Mendoza. Near Infrared and upconversion luminescence of Tm³⁺-Yb³⁺ codoped CdF₂ single crystals. *Journal of Luminescence*. 228, pp. 117594. 10/09/2020.

DOI: 10.1016/j.jlumin.2020.117594

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

- 51** E. Lalla; M. Konstantinidis; I. De Souza; M. G. Daly; I. R. Martín; V. Lavín; U. Rodríguez-Mendoza. Judd Ofelt parameters of RE³⁺-doped fluorotellurite glass (RE³⁺=Pr³⁺, Nd³⁺, Sm³⁺, Tb³⁺, Dy³⁺, Ho³⁺, Er³⁺ and Tm³⁺). *Journal of Alloys and Compounds*. 845, pp. 156028. 30/08/2020.

DOI: 10.1016/j.jallcom.2020.156028

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 4.65

Position of publication: 8

Category: Science Edition - METALLURGY & METALLURGICAL ENGINEERING

Journal in the top 25%: Yes

No. of journals in the cat.: 79

- 52** G. Brito-Santos; B. Gil-Hernández; I. R. Martín; R. Guerrero-Lemus; J. Sanchiz. Visible and NIR emitting Yb(III) and Er(III) complexes sensitized by b-diketonates and phenanthroline derivatives. *RSC Advances*. 10, pp. 27815. 30/07/2020.

DOI: 10.1039/D0RA05539E

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 8.286

Position of publication: 6

Category: Science Edition - OPTICS

Journal in the top 25%: Yes

No. of journals in the cat.: 97

- 53** 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. 15/07/2020.

DOI: 10.1002/adom.202000678

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 8.286

Position of publication: 6

Category: Science Edition - OPTICS

Journal in the top 25%: Yes

No. of journals in the cat.: 97

- 54** 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*. 3, pp. 6541. 05/02/2020.

DOI: <https://dx.doi.org/10.1021/acsnm.0c01025>

Type of production: Scientific paper

Impact source: ISI

Category: MATERIALS SCIENCE, MULTIDISCIPLINARY

Impact index in year of publication: 5.097
Position of publication: 101

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

- 55** 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. 3, pp. 6406. 04/02/2020.

DOI: <https://dx.doi.org/10.1021/acsnm.0c00839>

Type of production: Scientific paper

Impact source: ISI

Category: MATERIALS SCIENCE,
MULTIDISCIPLINARY

Impact index in year of publication: 5.097

Journal in the top 25%: No

Position of publication: 101

No. of journals in the cat.: 334

- 56** 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. 03/02/2020.

DOI: 10.1002/ppsc.202000068

Type of production: Scientific paper

Impact source: ISI

Category: CHEMISTRY, PHYSICAL

Impact index in year of publication: 3.099

Journal in the top 25%: No

Position of publication: 75

No. of journals in the cat.: 159

- 57** 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. 226, pp. 117424. 02/02/2020.

DOI: 10.1016/j.jlumin.2020.117424

Type of production: Scientific paper

Impact source: ISI

Category: Optics

Impact index in year of publication: 3.28

Journal in the top 25%: Yes

Position of publication: 21

No. of journals in the cat.: 97

- 58** 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. 01/02/2020.

DOI: 10.1016/j.jallcom.2020.155381

Type of production: Scientific paper

Impact source: ISI

Category: METALLURGY & METALLURGICAL
ENGINEERING

Impact index in year of publication: 4.65

Journal in the top 25%: Yes

Position of publication: 8

No. of journals in the cat.: 79

- 59** 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. 01/01/2020.

DOI: 10.1002/admt.201901091

Type of production: Scientific paper

Impact source: ISI

Category: MATERIALS SCIENCE,
MULTIDISCIPLINARY

Impact index in year of publication: 5.969

Journal in the top 25%: Yes

**Position of publication:** 62**No. of journals in the cat.:** 314

- 60** 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. 23/09/2019.
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
- 61** 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. 23/08/2019.
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
- 62** 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. 23/07/2019.
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
- 63** 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. 22/07/2019.
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
- 64** 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. 22/06/2019.
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



- 65** 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. 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
- 66** C. S. Dwaraka Viswanath; P. Babu; I. R. Martín; V. Venkatramu; V. Lavin; 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. 11/01/2019.
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
- 67** 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. 10/01/2019.
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
- 68** 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. 05/01/2019.
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
- 69** 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. 01/01/2019.
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



- 70** 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 orthoaluminatite nanoperovskite co-doped with Er³⁺/Yb³⁺ ions for thermal sensing applications. *Journal of Luminescence*. 202, pp. 316 - 321. 01/08/2018.
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
- 71** 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. 30/03/2018.
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
- 72** 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. 01/03/2018.
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
- 73** 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. 02/02/2018.
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
- 74** 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. 01/02/2018.
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
- 75** M. Runowski; A. Bartkowiak; M. Majewska; I. R. Martin; 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. 26/01/2018.
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

- 76** 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. 25/01/2018.

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

- 77** 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. 20/01/2018.

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

- 78** 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. 10/01/2018.

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

- 79** 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. 05/01/2018.

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

- 80** 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 orthoaluminato nano-perovskites. *Journal of Luminescence*. 196, pp. 20 - 24. 04/01/2018.



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

- 81** G. Torres Jasso; E. Montes; J. C. Guzmán Olgún; 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. 03/01/2018.

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

- 82** 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 Nd³⁺ ions in the first and second biological windows. *Sensor and Actuators: B. Chemical*. 255, pp. 970 - 976. 01/01/2018.

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

- 83** 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. 01/01/2018.

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

- 84** 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. 02/11/2017.

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

- 85** 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. 25/10/2017.

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

- 86** 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. 10/09/2017.

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

- 87** 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. 01/09/2017.

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

- 88** H. Marzougui; S. Attia-Essaies; I. R. Martín; C. Pérez-Rodríguez; S. F. León-Luis; A. D. Lozano-Gorrín; J. Sanchez; D. Ben Hassen Chehimi. Optical Properties of Nd³⁺-doped Tutton salts crystals. Journal of Luminescence. 192, pp. 136 - 140. 31/07/2017.

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

- 89** 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. 24/07/2017.

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

- 90** 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. 06/06/2017.

DOI: 10.1016/j.matchemphys.2017.06.003

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 2,21

Position of publication: 127

Category: Science Edition - MATERIALS SCIENCE, MULTIDISCIPLINARY

Journal in the top 25%: No

No. of journals in the cat.: 285

- 91** 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. 26/05/2017.

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

- 92** 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. 24/05/2017.

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

- 93** 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. 02/05/2017.

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

- 94** 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. 28/04/2017.

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

- 95** F. Lahoz; I. R. Martín; D. Walo; J. Gil-Rostra; 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. 15/03/2017.

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



- 96** 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. 13/03/2017.
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
- 97** L. Labrador-Paez; K. Soler-Carracedo; M. Hernández-Rodríguez; I. R. Martín; T. Carmon; L. L. Martín. Liquid whispering-gallery-mode resonator as a humidity sensor. Optics Express. 25, pp. 1165 - 1172. 30/01/2017.
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
- 98** 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. 20/01/2017.
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
- 99** 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. 15/01/2017.
DOI: 10.1016/j.jcrysgro.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
- 100** 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. 01/01/2017.
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



- 101** 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. 01/10/2016.
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
- 102** 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. 15/09/2016.
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
- 103** 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. 01/09/2016.
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
- 104** 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. 01/08/2016.
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
- 105** F. Lahoz; I. R. Martín; J. Gil-Rostra; M. Oliva-Ramírez; F. Yubero; A. R. Gonzalez-Elipse. Portable IR dye laser optofluidic microresonator as a temperature and chemical sensor. *Optics Express*. 24, pp. 14383 - 14392. 15/07/2016.
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
- 106** 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. 01/07/2016.
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

- 107** 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. 01/06/2016.

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

- 108** 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. 01/05/2016.

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

- 109** 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. 07/04/2016.

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

- 110** 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. 27/01/2016.

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

- 111** 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. 25/01/2016.

DOI: 10.1016/j.jcou.2016.01.001

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 4,292

Format: Journal

Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY

Journal in the top 25%: Yes

**Position of publication:** 33**No. of journals in the cat.:** 166

- 112** 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. 18/01/2016.
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
- 113** 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 $1-x$ Yx F_{2+x} nano-crystals. *Journal of Luminescence*. 172, pp. 201 - 207. 07/01/2016.
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
- 114** H. Rodríguez-Rodríguez; M. H. Imanieh; F. Lahoz; I. R. Martín. Analysis of the upconversion process in Tm $^{3+}$ doped glasses for enhancement of the photocurrent in silicon solar cells. *Solar Energy Materials & Solar Cells*. 144, pp. 29 - 32. 05/01/2016.
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
- 115** P. Babu; I. R. Martín; G.Venkataiah; V. Venkatramu; V. Lavín; C.K.Jayasankar. Blue-green cooperative upconverted luminescence and radiative energy transfer in Yb $^{3+}$ -doped tungsten tellurite glass. *Journal of Luminescence*. 169, pp. 233 - 237. 01/01/2016.
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
- 116** 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 Er $^{3+}$ -Yb $^{3+}$:Lu 3 Ga 5 O 12 Nanogarnets. *ChemPhysChem*. 16, pp. 3928 - 3936. 01/11/2015.
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

- 117** 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. 01/10/2015.
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
- 118** 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. 01/09/2015.
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
- 119** 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. 01/08/2015.
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
- 120** 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-yCexDyy)₂SiO₅ single crystals. *Journal of Luminescence*. 166, pp. 304 - 312. 01/07/2015.
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
- 121** 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. 01/06/2015.
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



- 122** 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. 01/05/2015.
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
- 123** 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. 01/03/2015.
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
- 124** 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. 01/02/2015.
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
- 125** 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. 02/01/2015.
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
- 126** 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. 01/01/2015.
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



- 127** 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. 01/01/2015.
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
- 128** 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. 01/01/2015.
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
- 129** 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
- 130** 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
- 131** 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
- 132** 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
- 133** 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 (LuxGd_{1-x})₂SiO₅: Sm³⁺ single crystals. *Optical Materials Express*. 4 - 4, pp. 739 - 752. 21/03/2014.
Type of production: Scientific paper
Format: Journal
- 134** P. Babu; I. R. Martín; K. V. Krishnaiah; H. J. Seo; V. Venkatramu; C. K. Jayasankar; V. Lavín. Photon avalanche upconversion in Ho³⁺-Yb³⁺ co-doped transparent oxyfluoride glass-ceramics. *Chemical Physics Letters*. 600, pp. 34 - 37. 20/03/2014.
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2.145
Position of publication: 67
Format: Journal
Category: CHEMISTRY, PHYSICAL
Journal in the top 25%: No
No. of journals in the cat.: 135



- 135** M. H. Imanieh; I. R. Martín; B. Eftekhari Yekta; J. González-Platas; A. Hernández-Creus. Investigation on Crystallization and Optical Properties of Ca_{1-x}LaxF_{2+x} glass ceramics. *Journal of the American Ceramic Society*. 97 - 3, pp. 782 - 788. 07/03/2014.
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
- 136** K. Venkata Krishnaiah; R. Rajeswari; K. Upendra Kumar; S. Surendra Babu; I. R. Martín; C.K. Jayasankar. Spectroscopy and radiation trapping of Yb³⁺ ions in lead phosphate glasses. *Journal of Quantitative Spectroscopy and Radiative Transfer*. 140, pp. 37 - 47. 13/02/2014.
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
- 137** 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 Nd³⁺ doped phosphate glasses for temperature sensing by means of the Fluorescence Intensity Ratio technique. *Sensors & Actuators: B Chemical*. 195, pp. 324 - 331. 01/02/2014.
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
- 138** 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. 02/01/2014.
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
- 139** 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. 01/01/2014.
Type of production: Scientific paper **Category:** MATERIALS SCIENCE, MULTIDISCIPLINARY
Impact source: ISI **Journal in the top 25%:** No
Impact index in year of publication: 1.547 **No. of journals in the cat.:** 241
Position of publication: 95
- 140** 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. 01/01/2014.
Type of production: Scientific paper **Category:** Science Edition - OPTICS
Impact source: ISI **Journal in the top 25%:** Yes
Impact index in year of publication: 2.144 **No. of journals in the cat.:** 80
Position of publication: 18



- 141** 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
- 142** 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
- 143** 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
- 144** 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
- 145** 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
- 146** 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
- 147** L.L. Martín; S. Ríos; I.R. Martín; P. Haro-González; J.M. Cáceres; A. Hernández-Creus. Nanocrystal formation using laser irradiation on Nd³⁺ doped barium titanium silicate glasses. *Journal of Alloys and Compounds*. 553, pp. 35 - 39. 2013.
Type of production: Scientific paper **Format:** Journal
- 148** 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
- 149** 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
- 150** 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



- 151** 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
- 152** 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
- 153** 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
- 154** 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 μ m broadband gain medium. *Optical Materials*. 34 - 8, pp. 1235 - 1240. 2012.
Type of production: Scientific paper **Format:** Journal
- 155** 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. 2012.
DOI: 10.1002/sml.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
- 156** 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
- 157** D. Navarro-Urrios; M. Baselga; F.F. Lupi; L.L. Martín; C. Pérez-Rodríguez; V. Lavín; 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
- 158** 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
- 159** P. Haro Gonzalez; M. Pedroni; F. Piccinelli; L. L. Martin; S. Polizzi; M. Giarola; G. Mariotto; A. Speghini; M. Bettinelli; I. R. Martin. Synthesis, characterization and optical spectroscopy of Eu³⁺ doped titanate nanotubes. *JOURNAL OF LUMINESCENCE*. 131 - 12, pp. 2473 - 2477. 05/12/2011. ISSN 0022-2313
Type of production: Scientific paper **Format:** Journal



- 160** 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
Type of production: Scientific paper **Format:** Journal
- 161** L. L. Martin; C. Perez Rodriguez; P. Haro Gonzalez; I. R. Martin. Whispering gallery modes in a glass microsphere as a function of temperature. OPTICS EXPRESS. 19 - 25, pp. 25792 - 25798. 05/12/2011. ISSN 1094-4087
Type of production: Scientific paper **Format:** Journal
- 162** 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
- 163** P. Haro Gonzalez; S. F. Leon Luis; S. Gonzalez Perez; I. R. Martin. Analysis of Er³⁺ and Ho³⁺ codoped fluoroindate 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
- 164** 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
- 165** 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. 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
- 166** 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
- 167** 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
- 168** 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
- 169** 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



- 170** 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
Type of production: Scientific paper **Format:** Journal
- 171** F. Lahoz; N. Capuj; P. Haro Gonzalez; I. R. Martin; C. Perez Rodriguez; J. M. Caceres. Stimulated emission in the red, green, and blue in a nanostructured glass ceramics. JOURNAL OF APPLIED PHYSICS. 109 - 4, pp. 043102-1 - 043102-6. 15/02/2011. ISSN 0021-8979
Type of production: Scientific paper **Format:** Journal
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Type of production: Scientific paper

Format: Journal

- 246** IR Martin; VD Rodriguez; V Lavin; UR Rodriguez Mendoza. Upconversion dynamics in Yb³⁺-Ho³⁺ doped fluoroindate glasses. JOURNAL OF ALLOYS AND COMPOUNDS. 275, pp. 345 - 348. 24/07/1998. ISSN 0925-8388

Type of production: Scientific paper

Format: Journal

- 247** IR Martin; VD Rodriguez; UR Rodriguez Mendoza; V Lavin. Time-resolved fluorescence line narrowing in Yb³⁺-doped fluoroindate glasses. PHYSICAL REVIEW B. 57 - 6, pp. 3396 - 3401. 01/02/1998. ISSN 0163-1829

Type of production: Scientific paper

Format: Journal

- 248** IR Martin; VD Rodriguez; V Lavin; UR RodriguezMendoza. Kinetics of transfer and backtransfer in Yb³⁺-Er³⁺ codoped fluoroindate glasses. JOURNAL OF LUMINESCENCE. 72-4, pp. 954 - 955. 01/06/1997. ISSN 0022-2313

Type of production: Scientific paper

Format: Journal

- 249** VD Rodriguez; UR RodriguezMendoza; IR Martin; V Lavin; P Nunez. Site distribution in Cr³⁺ and Cr³⁺-Tm³⁺-doped alkaline silicate glasses. JOURNAL OF LUMINESCENCE. 72-4, pp. 446 - 448. 01/06/1997. ISSN 0022-2313

Type of production: Scientific paper

Format: Journal

- 250** V Lavin; VD Rodriguez; IR Martin; UR RodriguezMendoza. Site selective study in Eu³⁺-doped fluorozirconate glasses and glass-ceramics. JOURNAL OF LUMINESCENCE. 72-4, pp. 437 - 438. 01/06/1997. ISSN 0022-2313

Type of production: Scientific paper

Format: Journal

- 251** VD Rodriguez; IR Martin; R Alcalá; R Cases. Energy transfer and up-conversion in Yb-Tm codoped fluorindate glasses. RADIATION EFFECTS AND DEFECTS IN SOLIDS. 135 - 1-4, pp. 129 - 132. 01/06/1995. ISSN 1042-0150

Type of production: Scientific paper

Format: Journal

- 252** VD Rodriguez; V Lavin; UR RodriguezMendoza; IR Martin; P Nunez. Site selective spectroscopy of Eu³⁺ and Eu³⁺-Ho³⁺ doped glasses. RADIATION EFFECTS AND DEFECTS IN SOLIDS. 135 - 1-4, pp. 105 - 108. 01/06/1995. ISSN 1042-0150

Type of production: Scientific paper

Format: Journal

- 253** I. R. Martín; V. D. Rodríguez; M. Morales; U. R. Rodríguez-Mendoza; V. Lavín. Excited state dynamics in Yb³⁺-Ho³⁺ doped fluorindate glasses. Journal of Applied Spectroscopy. 62 - 5, pp. 865 - 871. 1995.

Type of production: Scientific paper

Format: Journal

- 254** V. Lavín; V. D. Rodríguez; I. R. Martín; U. R. Rodríguez-Mendoza; I. Szabo; Zs. Rasztoivts. Optical properties of Eu³⁺ and Ho³⁺ in fluoride glasses. Journal of Applied Spectroscopy. 62 - 4, pp. 766 - 770. 1995.

Type of production: Scientific paper

Format: Journal



- 255** U. R. Rodríguez-Mendoza; V. D. Rodríguez; V. Lavín; I. R. Martín; P. Nuñez. Optical spectroscopy of Cr³⁺ and Cr³⁺-Tm³ in alkaline silicate glasses. *Journal of Applied Spectroscopy*. 62 - 5, pp. 895 - 899. 1995.
Type of production: Scientific paper **Format:** Journal
- 256** IR MARTIN; VD RODRIGUEZ; R ALCALA; R CASES. CROSS-RELAXATION FOR TM³⁺ IONS IN INDIUM-BASED GLASSES. *JOURNAL OF NON-CRYSTALLINE SOLIDS*. 161, pp. 294 - 296. 01/08/1993. ISSN 0022-3093
Type of production: Scientific paper **Format:** Journal
- 257** VD RODRIGUEZ; IR MARTIN; R ALCALA; R CASES. OPTICAL-PROPERTIES AND CROSS RELAXATION AMONG SM³⁺ IONS IN FLUORZINCATE GLASSES. *JOURNAL OF LUMINESCENCE*. 54 - 4, pp. 231 - 236. 01/12/1992. ISSN 0022-2313
Type of production: Scientific paper **Format:** Journal
- 258** I. Martin; L. Martin; A. Das; M. Grootveld; V. Radu; M. L. Mather; O. B. Wilson. Electron Spin Resonance for the Detection of Paramagnetic Species: From Fundamentals to Computational Methods for Simulation and Interpretation. *RSC Theoretical and Computational Chemistry Series*. 20, pp. 335 - 361. 02/06/2021. ISBN 978-1-78801-588-2
Type of production: Book chapter
- 259** V. Lavín; I. R. Martín; F. Lahoz; U. R. Rodríguez-Mendoza. Up-conversion processes in Ln(III)-doped luminescent materials for photovoltaics and photocatalysis. *Lanthanide-Based Multifunctional Materials*. Elsevier, 30/03/2018. ISBN 978-0-12-813840-3
Type of production: Book chapter
- 260** O. Hernández; M. F. Guerra Medina; I. R. Martín. Multi-User Visible Light Communications. *Advances in Optical Communication*. pp. 35 - 63. INTECH, 13/12/2014.
Type of production: Book chapter
- 261** P. Haro Gonzalez; I. R. Martin; S. Gonzalez Perez; L. L. Martin; F. Lahoz; D. Puerto; J. Solis. FEMTOSECOND LASER MODIFICATION ON STRONTIUM BARIUM NIOBATE GLASSES DOPED WITH Er(3+) IONS. *CERAMIC MATERIALS AND COMPONENTS FOR ENERGY AND ENVIRONMENTAL APPLICATIONS*. 210, pp. 573 - 578. 18/01/2010. ISSN 1042-1122
Type of production: Book chapter
- 262** S. Gonzalez Perez; P. Haro Gonzalez; I. R. Martin. MICROCRYSTALLIZATION IN OXYFLUORIDE Nd(3+) DOPED GLASS DUE TO LASER IRRADIATION. *CERAMIC MATERIALS AND COMPONENTS FOR ENERGY AND ENVIRONMENTAL APPLICATIONS*. 210, pp. 561 - 565. 18/01/2010. ISSN 1042-1122
Type of production: Book chapter **Format:** Scientific and technical document or report
- 263** P. Haro Gonzalez; F. Lahoz; I. R. Martin; S. Gonzalez Perez; N. E. Capuj. OPTICAL GAIN BY UPCONVERSION IN Tm-Yb OXYFLUORIDE GLASS CERAMIC. *CERAMIC MATERIALS AND COMPONENTS FOR ENERGY AND ENVIRONMENTAL APPLICATIONS*. 210, pp. 567 - 571. 18/01/2010. ISSN 1042-1122
Type of production: Book chapter
- 264** V. Lavín; I. R. Martín; U. R. Rodríguez-Mendoza. Optical properties of the rare earth ions in fluoride glasses. *Material Science Foundations*. pp. 149 - 197. Trans Tech Publications Inc. (Stafa-Zurich, Suiza). ISBN: 0-87849-481-2, 2009.
Type of production: Book chapter
- 265** D. Navarro Urrios; M. Ghulinyan; M. Bettotti; N. E. Capuj; C. J. Oton; F. Lahoz; I. R. Martin; L. Pavesi. Optical gain in dye-doped polymer waveguides using oxidized porous silicon cladding. *SPIE-The International Society for Optical Engineering*. 6593, pp. 659321-1 - 659321-8. 2007.



Type of production: Book chapter

- 266** V. Lavín; F. Lahoz; I. R. Martín; U. R. Rodríguez-Mendoza. Optical properties of rare earths ions in transparent oxyfluoride glass-ceramics. *Photonic Glasses*. pp. 115 - 149. Research Signpost (India), ISBN: 81-308-0063-02, 2006.

Type of production: Book chapter

- 267** CJ Oton; E Lorenzo; N Capuj; F Lahoz; IR Martin; D Navarro Urrios; M Ghulinyan; F Sbrana; Z Gaburro; L Pavese. Porous silicon-based Notch filters and waveguides. *Photonic Materials, Devices, and Applications, Pts 1 and 2*. 5840, pp. 434 - 443. 16/01/2005. ISSN 0277-786X

Type of production: Book chapter

- 268** IR Martin; F Lahoz; V Lavin; M Hernandez Molina. Optical properties of EU3+ in malonate crystals to monitor a structural phase transition. *OPTICS FOR THE QUALITY OF LIFE, PTS 1 AND 2*. 4829, pp. 139 - 140. 10/04/2003. ISSN 0277-786X

Type of production: Book chapter

- 269** F Lahoz; IR Martin; UR Rodriguez Mendoza; VL Guadalupe; J Mendez Ramos. Room temperature photon avalanche upconversion in Ho3+ doped fluorindate glasses under excitation at 749 nm. *OPTICS FOR THE QUALITY OF LIFE, PTS 1 AND 2*. 4829, pp. 141 - 142. 10/04/2003. ISSN 0277-786X

Type of production: Book chapter

- 270** JP Diaz; FJ Exposito; IR Martin; R Barrena. Radiative properties of Saharan mineral dust measured using neodymium : yttrium-aluminium-garnet (532 nm) backscatter lidar. *AIR POLLUTION VI*. 6, pp. 919 - 927. Boston, SouthamptonWTPress Computational Mechanics Publication, 01/02/1998. ISSN 1369-5886

Type of production: Book chapter

Format: Scientific and technical document or report

Works submitted to national or international conferences

- 1** **Title of the work:** Luminescent Materials as a Remote Sensing Platform

Name of the conference: VI JORNADAS JUAN CARLOS RUIZ MORALES 2023

Type of participation: Participatory - oral communication

City of event: Tenerife, Spain

Date of event: 02/11/2023

Organising entity: JCRM Committee

C. Hernández-Álvarez (*); G. Brito-Santos; P. I. Martín-Hernández; I. R. Martín; J. Sanchiz; M. Runowski; F. Rivera-López; H. Hemmerich.

- 2** **Title of the work:** Application of a Remote Sensing Platform using Luminescent Materials

Name of the conference: 1st European School on Advanced Materials 2023

Type of participation: Participatory - oral communication

City of event: Gandia (Valencia), Spain

Date of event: 15/10/2023

End date: 18/10/2023

Organising entity: ESAM Committee

C. Hernández-Álvarez (*); G. Brito-Santos; P. I. Martín-Hernández; I. R. Martín; J. Sanchiz; M. Runowski; F. Rivera-López; H. Hemmerich.

- 3** **Title of the work:** Luminescence-based Optical sensors

Name of the conference: NanoTech Poland 2023

Type of participation: Participatory - invited/keynote talk



City of event: Poznan, Poland

Date of event: 14/06/2023

End date: 16/06/2023

Organising entity: Nanotech Committee

I. R. Martín (*); S. Ríos; L.L. Martín; K. Soler-Carracedo; C. Hernández-Álvarez; H.- Memmerich; F. Rivera-López; M. Runowski.

- 4** **Title of the work:** Multi-functional optical sensors of temperature, pressure and laser power
Name of the conference: NanoTech Poland 2023
Type of participation: 'Participatory - poster
City of event: Poznan, Poland
Date of event: 14/06/2023
End date: 16/06/2023
Organising entity: Nanotech Committee
C. Hernández-Álvarez (*); G. Brito-Santos; I. R. Martín; J. Sanchiz; K. Soler-Carracedo; J. González-Platas; M. Runowski.
- 5** **Title of the work:** Pr³⁺-doped perovskite niobate nano-ceramics towards improving performance of optical temperature sensor by second harmonic generation (SHG) combined with lanthanide luminescence
Name of the conference: NanoTech Poland 2023
Type of participation: 'Participatory - poster
City of event: Poznan, Poland
Date of event: 14/06/2023
End date: 16/06/2023
Organising entity: Nanotech Committee
K. Soler-Carracedo (*); T. Zheng; M. Runowski; L. Luo; I. R. Martín.
- 6** **Title of the work:** Multi-functional Sensing Platform using a Luminescent Material
Name of the conference: 16 European School on Molecular Nanoscience 2023
Type of participation: Participatory - oral communication
City of event: Madrid, Spain
Date of event: 07/05/2023
End date: 11/05/2023
Organising entity: Esmolna Committee
C. Hernández-Alvarez (*); G. Brito-Santos; I. R. Martín; J. Sanchiz; K. Saidi; K. Soler-Carracedo; M. Runowski; J. González-PLatas.
- 7** **Title of the work:** Europium(III)-doped Gadolinium(III) complex for high sensitivity temperature sensing in the physiological range
Name of the conference: VI JORNADAS JUAN CARLOS RUIZ MORALES
Type of participation: Participatory - oral communication
City of event: Tenerife, Spain
Date of event: 09/11/2022
Organising entity: JCRM Committee
K. Soler-Carracedo (*); M. Díaz-González; I. R. Martín; S. Ríos; B. Gil-Hernández; G. Brito-Santos; J. Sanchiz.
- 8** **Title of the work:** Inesperado ajuste de las propiedades ferroeléctricas al variar la concentración de Er en soluciones sólidas de La_{2-x}Er_x(MoO₄)₃ (x = 0.75, 1, 1.25)
Name of the conference: VI JORNADAS JUAN CARLOS RUIZ MORALES
Type of participation: Participatory - oral communication
City of event: Tenerife, Spain

Date of event: 09/11/2022

Organising entity: JCRM Committee

G. Gil-de-Cos (*); M.E. Torres; C. González-Silgo; K. Soler-Carracedo; I. R. Martín; F. Rivera-López; S. Rodríguez-Rodríguez.

- 9** **Title of the work:** Termometría y manometría radiométricas supersensibles basadas en centros de doble emisión en fósforos de tetraborato de estroncio dopados con Eu 2+/Sm2+
Name of the conference: VI JORNADAS JUAN CARLOS RUIZ MORALES
Type of participation: Participatory - oral communication
City of event: Tenerife, Spain
Date of event: 09/11/2022
Organising entity: JCRM Committee
C. Espilosa-Piñero(*); T. Zheng; M. Sojka; P. Wozny; I. R. Martín; V. Lavín; E. Zych; S. Lis; P. Du; L. Luo; M. Runowski.
- 10** **Title of the work:** Seamless integration of photonics within harsh-environment resistant crystals with 3D laser nanolithography: Towards real-world advanced optical sensors
Name of the conference: Shift 2022
Type of participation: Participatory - invited/keynote talk
City of event: Tenerife, Spain
Date of event: 10/10/2022
End date: 14/10/2022
Organising entity: Shift Committee
F. Paz-Buclatin; A. Casanovas Melián; M. Esquivel-González; O. de Varona; C. Cairós; J.M. Trujillo-Sevilla; J. M. Rodríguez-Ramos; U. R. Rodríguez-Mendoza; V. Lavín; I. R. Martín; A. Ródenas (*).
- 11** **Title of the work:** Temperature-dependent up-conversion luminescence in core/shell nanoparticles doped with Ho 3+ and Er 3+ ions upon 1151 nm excitation
Name of the conference: Shift 2022
Type of participation: Participatory - poster
City of event: Tenerife, Spain
Date of event: 10/10/2022
End date: 14/10/2022
Organising entity: Shift Committee
S. Ryszczyńska; I. R. Martín; T. Grzyb (*).
- 12** **Title of the work:** Comprehensive study on microspheres for Optical Refractive Index Sensing applications
Name of the conference: IC3EM. 5th International Caparica Conference on Chromogenic and Emissive Materials
Type of participation: Participatory - oral communication
City of event: Caparica, Portugal
Date of event: 03/07/2022
End date: 07/07/2022
Organising entity: IC3EM Committee
K. Soler-Carracedo (*); I. R. Martín; F. Lahoz; A. Ruiz; S. de Armas-Rillo.
- 13** **Title of the work:** Shifting excitation of upconverting nanoparticles over 1000 nm – design, synthesis and applications
Name of the conference: 21st International Symposium on Bioluminescence and Chemiluminescence & XIX International Symposium on Luminescence Spectrometry
Type of participation: Participatory - oral communication
City of event: Gijón, Spain



Date of event: 31/05/2022

End date: 03/06/2022

Organising entity: ISBC-ISLS Committee

T. Grzyb (*); D. Przybylska; S. Ryszczynska; N. Jurga; A. Szczeszak; I. R. Martín.

14 Title of the work: Optical study on new RE-doped perovskites

Name of the conference: RSEQ Symposium

Type of participation: Participatory - poster

City of event: (Online), Spain

Date of event: 27/09/2021

End date: 30/09/2021

Organising entity: Committee RSEQ

S. Díaz-Gonzalez; I. R. Martín; B. Gil-Hernandez; A. D. Lozano-Gorrín.

15 Title of the work: Down conversion in Pr³⁺-Yb³⁺ co-doped phosphate glasses

Name of the conference: 4th SMART MATERIALS and SPECTROSCOPY

Type of participation: Participatory - oral communication

City of event: HAMMAMET, Tunisia

Date of event: 24/06/2021

End date: 27/06/2021

Organising entity: Committee SMS

H. Benrejeb (*); S. Hraiech; K. Soler-Carracedo; I. R. Martín.

16 Title of the work: Energy transfer studies in Ce³⁺-Sm³⁺ co-doped phosphate glasses

Name of the conference: 4th SMART MATERIALS and SPECTROSCOPY

Type of participation: Participatory - poster

City of event: HAMMAMET, Tunisia

Date of event: 24/06/2021

End date: 27/06/2021

Organising entity: Committee SMS

H. Benrejeb; S. Hraiech; K. Soler-Carracedo; I. R. Martín.

17 Title of the work: Photocatalytic and SOFC applications of rare-earth-doped perovskite-type SrFexCo_{1-x}O_{3-δ}

Name of the conference: EuroNanoForum

Type of participation: Participatory - poster

City of event: (Online), Spain

Date of event: 05/06/2021

End date: 06/06/2021

Organising entity: Committee EuroNanoForum

S. Díaz-Gonzalez (*); D. Díaz-Díaz; I. R. Martín; B. Gil-Hernandez; A. D. Lozano-Gorrín.

18 Title of the work: Development of new optical sensors of low and high pressure, based on luminescence of lanthanide ions

Name of the conference: 58TH EHPRG Conference

Type of participation: Participatory - invited/keynote talk

City of event: Tenerife, Spain

Date of event: 06/09/2020

End date: 11/09/2020

Organising entity: Committee EHPRG

M. Runowski (*); T. Zheng; P. Wozny; S. Lis; I. R. Martín; V. Lavin.



- 19** **Title of the work:** Magnetic-Metal Organic Frameworks (Magnetic-MOFs): Two Lanthanide Specimens
Name of the conference: Photophysics of Molecular Magnets (2019)
Type of participation: 'Participatory - poster
City of event: Edinburgh, United Kingdom
Date of event: 10/10/2019
End date: 11/10/2019
Organising entity: Committee PMM2019
M. Susano (*); A.J.F.N. Sobral; T. Roseiro; V. Lavín; I. R. Martín; J. M. Gil; M. C. J. Pereira; M. Ramos Silva.
- 20** **Title of the work:** The necessary shield: quantifying the protective benefit of an outer shell for near infrared luminescence emitted from Nd³⁺-doped nanoparticles
Name of the conference: International Conference of Excited States of Transitions Elements
Type of participation: Participatory - invited/keynote talk
City of event: Kudowa-Zdrow, Poland
Date of event: 08/09/2019
End date: 13/09/2019
Organising entity: Committee ESTE'2019
A. Benayas (*); A. Skripka; C. D. Brites; I. R. Martín; L. D. Carlos; F. Vetrone.
- 21** **Title of the work:** Optical properties of Er³⁺-doped oxide glasses for optical temperature sensors
Name of the conference: National Conference in functionality of Advanced Materias 2019 (NCFAM 2019)
Type of participation: 'Participatory - poster
City of event: Andhra Pradesh, India
Date of event: 24/06/2019
End date: 25/06/2019
Organising entity: Committee NCFAM
V. Venkatramu; P. Venkatalaksbamma; I. R. Martín; V. Venkata Krishnaiah; V. Lavín.
- 22** **Title of the work:** Fluorescence Intensity Ratio and Whispering Gallery Mode techniques in optical temperature sensors - Comparative study.
Name of the conference: ESODM 2019 (Spanish Optical Design)
Type of participation: 'Participatory - poster
City of event: La Laguna, Spain
Date of event: 22/03/2019
End date: 22/03/2019
Organising entity: Committee ESODM
F. Paz-Buclatin; S. Ríos; I. R. Martín.
- 23** **Title of the work:** Refractive index characterization in biological tissue through optical sensing.
Name of the conference: ESODM 2019 (Spanish Optical Design)
Type of participation: 'Participatory - poster
City of event: La Laguna, Spain
Date of event: 22/03/2019
End date: 22/03/2019
Organising entity: Committee ESODM
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.



- 24** **Title of the work:** Visible and near-infrared emission of $\text{Ca}_2\text{SiO}_4:\text{Er}^{3+}$ phosphors synthesized from agricultural waste
Name of the conference: Andhra Pradesh Science Congress-2018
Type of participation: 'Participatory - poster
City of event: Andhra Pradesh, India
Date of event: 09/11/2018
End date: 11/11/2018
Organising entity: Andhra Pradesh Science Committee
R. Reddappa; P. Babu; I. R. Martín; L. Lakshmi Devi; V. Venkatramu; V. Lavín; C. K. Jayasankar.
- 25** **Title of the work:** Microscopía de fluorescencia de huesos quemados de animales: aplicaciones en la micromorfología arqueológica
Name of the conference: XXII Semana Científica Antonio González
Type of participation: 'Participatory - poster
City of event: La Laguna, Spain
Date of event: 23/10/2018
End date: 26/10/2018
Organising entity: Comité XXII (IUBO)
G. Lambrecht; I. R. Martín; C. Rodríguez de Vera; C. Mallol.
- 26** **Title of the work:** Fluorescent optical Microresonators for Optofluidic Sensor Applications
Name of the conference: Inter-Photonics 2018
Type of participation: Participatory - invited/keynote talk
City of event: Antalya, Turkey
Date of event: 08/10/2018
End date: 12/10/2018
Organising entity: Committee of the Photonics Research
F. Lahoz (*); I. R. Martín; K. Soler-Carracedo; J. Gil-Rostra; F. Yubero; A. R. González-Elipe.
- 27** **Title of the work:** Optical Sensing in biological tissue based on resonant microcavities
Name of the conference: Inter-Photonics 2018
Type of participation: Participatory - oral communication
City of event: Antalya, Turkey
Date of event: 08/10/2018
End date: 12/10/2018
Organising entity: Committee of the Photonics Research
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.
- 28** **Title of the work:** A crystal field and luminescence analysis of Nd^{3+} in YAIO_3 nanocrystal perovskite under high pressure conditions
Name of the conference: 56th European High Pressure Research Group (EHPRG) Meeting
Type of participation: 'Participatory - poster
City of event: Aveiro, Portugal
Date of event: 02/09/2018
End date: 07/09/2018
Organising entity: Universidad de Aveiro
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.



- 29** **Title of the work:** Analysis of the pressure evolution of the anti-stokes fluorescence in Nd³⁺ in YAlO₃ nanocrystal perovskite
Name of the conference: 56th European High Pressure Research Group (EHPRG) Meeting
Type of participation: 'Participatory - poster
City of event: Aveiro, Portugal
Date of event: 02/09/2018
End date: 07/09/2018
Organising entity: Universidad de Aveiro
M. A. Hernández-Rodríguez; U. R. Rodríguez-Mendoza; V. Lavín; J. E. Muñoz-Santiuste; I.R. Martín; A. D. Lozano-Gorrín.
- 30** **Title of the work:** Analysis of the structural, Vibrational, and elastic properties of YAlO₃ nanocrystal perovskite under high pressure conditions
Name of the conference: 56th European High Pressure Research Group (EHPRG) Meeting
Type of participation: 'Participatory - poster
City of event: Aveiro, Portugal
Date of event: 02/09/2018
End date: 07/09/2018
Organising entity: Universidad de Aveiro
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.
- 31** **Title of the work:** Optical characterization of Sm³⁺ ion in (LuGd)SiO₅ crystal under extreme conditions of pressure and /or temperature
Name of the conference: 56th European High Pressure Research Group (EHPRG) Meeting
Type of participation: 'Participatory - poster
City of event: Aveiro, Portugal
Date of event: 02/09/2018
End date: 07/09/2018
Organising entity: Universidad de Aveiro
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.
- 32** **Title of the work:** Láminas luminiscentes como protección y mejora de la eficiencia de dispositivos fotovoltaicos
Name of the conference: QIES 2018
Type of participation: 'Participatory - poster
City of event: Tenerife, Spain
Date of event: 17/06/2018
End date: 20/06/2018
Organising entity: Comité del grupo especializado en Química Inorgánica y Química de Estado Sólido
B. Gil-Hernández; B. González-Díaz; I. R. Martín; C. Hernández-Rodríguez; R. Guerrero Lemus; J. Sanchiz.
- 33** **Title of the work:** Transformación de perovskita a granate a lo largo de la serie de lantánidos en nanoestructuras de aluminatos
Name of the conference: QIES 2018
Type of participation: 'Participatory - poster
City of event: Tenerife, Spain
Date of event: 17/06/2018
End date: 20/06/2018



Organising entity: Comité del grupo especializado en Química Inorgánica y Química de Estado Sólido
A. D. Lozano-Gorrín; M. A. Hernández-Rodríguez; V. Monteseuro; U. R. Rodríguez-Mendoza; I. R. Martín;
V. Lavín.

- 34** **Title of the work:** Rare-earth doped optical fibers in a Fabry-Perot microcavity for sensor applications
Name of the conference: 1st International Conference on Optics, Photonics and Lasers (OPAL'2018)
Type of participation: Participatory - oral communication
City of event: Barcelona, Spain
Date of event: 09/05/2018
End date: 11/05/2018
Organising entity: OPAL Committee
F. Lahoz(*); I. R. Martín; K. Soler-Carracedo; J. Cáceres; J. Gil-Rostra; F. Yubero; A. R. González-Elipe.
- 35** **Title of the work:** Looking for new Materials with Optical Applications (Buscando Nuevos Materiales con Aplicaciones Ópticas)
Name of the conference: Encuentro IPNA
Type of participation: Participatory - invited/keynote talk
City of event: La Laguna, Spain
Date of event: 20/04/2018
End date: 20/04/2018
Organising entity: Comité del Instituto de Productos Naturales y Agrobiología
I. R. Martín (*).
- 36** **Title of the work:** Control of laser induced temperature increase in bacteria through Green Fluorescent Protein nanothermometers
Name of the conference: Spectral shapping for biomedical and energy applications (Shif 2017)
Type of participation: Participatory - invited/keynote talk
City of event: Tenerife, Spain
Date of event: 13/11/2017
End date: 17/11/2017
Organising entity: Shift Committee
F. Lahoz (*); I. R. Martín; D. Walo; M. V. Bollo; R. Freire; J. Gil-Rostra; F. Yubero; A. R. González-Elipe.
- 37** **Title of the work:** Nanoperovskite doped with Yb³⁺ and Tm³⁺ used as optical upconversion temperature sensor
Name of the conference: Spectral shapping for biomedical and energy applications (Shif 2017)
Type of participation: Participatory - poster
City of event: Tenerife, Spain
Date of event: 13/11/2017
End date: 17/11/2017
Organising entity: Shift Committee
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.
- 38** **Title of the work:** Nanoperovskites doped with RE³⁺ ions as optical temperature sensors working in the near infrared region
Name of the conference: Spectral shapping for biomedical and energy applications (Shif 2017)
Type of participation: Participatory - poster
City of event: Tenerife, Spain
Date of event: 13/11/2017
End date: 17/11/2017

Organising entity: Shift Committee

M. A. Hernández-Rodríguez; A. D. Lozano-Gorrín; I. R. Martín; U. R. Rodríguez-Mendoza; V. Lavín.

- 39** **Title of the work:** Nanothermometry and nanoheating applied to biomedicine. Near-infrared emitting rare-earth doped nano-garnets
Name of the conference: Spectral shapping for biomedical and energy applications (Shif 2017)
Type of participation: 'Participatory - poster
City of event: Tenerife, Spain
Date of event: 13/11/2017
End date: 17/11/2017
Organising entity: Shift Committee
A. D. Lozano-Gorrín; M. A. Hernández-Rodríguez; U. R. Rodríguez-Mendoza; I. R. Martín; V. Lavín.
- 40** **Title of the work:** Whispering gallery modes in a holmium doped glass microsphere: temperature sensor in the second biological window
Name of the conference: Spectral shapping for biomedical and energy applications (Shif 2017)
Type of participation: 'Participatory - poster
City of event: Tenerife, Spain
Date of event: 13/11/2017
End date: 17/11/2017
Organising entity: Shift Committee
L. de Sousa-Vieira; L. García-Rodríguez; S. Ríos; I. R. Martín.
- 41** **Title of the work:** Near infrared to visible photon up-conversion in Er³⁺/Yb³⁺ doped BaTiO₃. Structural and Judd-Ofelt properties
Name of the conference: 18th International Conference on Luminescence (ICL)
Type of participation: 'Participatory - poster
City of event: João Pessoa, Brazil
Date of event: 27/08/2017
End date: 01/09/2017
Organising entity: ICL Committee
J. LLanos; M. Vega; P. Alemany; I. R. Martín.
- 42** **Title of the work:** Ln(III) Complexes as Single-Ion Magnets that light can disturb
Name of the conference: Multiscale phenomena in molecular matter
Type of participation: Participatory - oral communication
City of event: Krakow, Poland
Date of event: 03/07/2017
End date: 06/07/2017
Organising entity: Polish Academy of Sciencies
M. Susano; J. Rybusinki; P. Martín-Ramos; A. Gardias; J. Szczytko; J. Martín-Gil; F. Lahoz; V. Lavín; E. Eusebio; L. Pereira; I. R. Martín.
- 43** **Title of the work:** On a Nd(III)-based solution-processed NIR-OLED for biomedical and sensor applications
Name of the conference: Printed and Flexible electronics
Type of participation: 'Participatory - poster
City of event: London, United Kingdom
Date of event: 21/02/2017
End date: 22/02/2017
Organising entity: GEPP17



M. Susano; P. Martín-Ramos; M. Carmen Coya-Párraga; Ángel L. Álvarez; I. R. Martín; J. Martín-Gil; M. Ramos Silva.

- 44** **Title of the work:** Broadband 1.20 μm emission in Tm^{3+} -doped oxyfluoride glasses for fiber amplifiers
Name of the conference: 25Th DAE-BRNS National Laser Symposium
Type of participation: 'Participatory - poster
City of event: Bhubaneswar, India
Date of event: 20/12/2016
End date: 23/12/2016
Organising entity: KIIT University
C. S. Dwaraka; P. Babu; I. R. Martín; V. Venkatramu; V. Lavín; C. J. Jayasankar.
- 45** **Title of the work:** Concentration dependent near infrared and cooperative luminescence of Yb^{3+} in $\text{Lu}_3\text{Sc}_2\text{GaO}_{12}$ nano-garnets
Name of the conference: 25Th DAE-BRNS National Laser Symposium
Type of participation: 'Participatory - poster
City of event: Bhubaneswar, India
Date of event: 20/12/2016
End date: 23/12/2016
Organising entity: KIIT University
R. Praveena; P. Venkata; V. Sravani; V. Venkatramu; I. R. Martín; V. Lavín; C. J. Jayasankar.
- 46** **Title of the work:** Nanoperovskites doped with Nd^{3+} or Ho^{3+} as Optical Thermal Sensor in the Near Infrared
Name of the conference: Materials Science and Technology 2016
Type of participation: Participatory - oral communication
City of event: Salt Lake City, United States of America
Date of event: 23/10/2016
End date: 27/10/2016
Organising entity: MS&T16 Committee
M. A. Hernández-Rodríguez (*); A. D. Lozano-Gorrín; V. Lavín; I. R. Martín; U. R. Rodríguez-Mendoza.
- 47** **Title of the work:** Near-infrared emitting rare-earth doped garnets for nanothermometry and nanoheating applications in biomedicine
Name of the conference: Materials Science and Technology 2016
Type of participation: Participatory - oral communication
City of event: Salt Lake City, United States of America
Date of event: 23/10/2016
End date: 27/10/2016
Organising entity: MS&T16 Committee
V. Lavín; U. R. Rodríguez-Mendoza; I. R. Martín; A. D. Lozano-Gorrín (*).
- 48** **Title of the work:** Stable and portable optofluidic laser device for sensor application
Name of the conference: EMN Meeting on Photonics 2016
Type of participation: Participatory - oral communication
City of event: Barcelona, Spain
Date of event: 19/09/2016
End date: 23/09/2016
Organising entity: EMN Committee
F. Lahoz (*); I. R. Martín; J. Gil-Rostrá; M. Oliva-Ramírez; F. Yubero; A. R. González-Felipe.



- 49** **Title of the work:** Sistema de comunicación OFDM para entornos VLC basado en FPGA
Name of the conference: XXVI Simposium Nacional de la Union Científica Internacional de Radio
Type of participation: Participatory - oral communication
City of event: Madrid, Spain
Date of event: 05/09/2016
End date: 07/09/2016
Organising entity: URSI Committee
M. F. Guerra; O. González; I. R. Martín; S. Rodríguez; A. Ayala; B. Rodríguez.
- 50** **Title of the work:** Characterization of Er³⁺-doped oxyfluoride glasses for optical sensor
Name of the conference: Sustainable Energy Technologies for Smart and Clean Cities
Type of participation: Participatory - poster
City of event: Tirupati, India
Date of event: 27/07/2016
End date: 29/07/2016
Organising entity: SETS&CC-2016 committee
P. Babu; I. R. Martín; C. S. Dwaraka; N. Vijaya; V. Lavín; C. J. Jayasankar.
- 51** **Title of the work:** High Pressure Stokes and Upconverted Emission of Nd³⁺ Ions in YAlO₃ Perovskites Nano-crystals
Name of the conference: Rare Earths 2016
Type of participation: Participatory - poster
City of event: Sapporo, Japan
Date of event: 05/06/2016
End date: 10/06/2016
Organising entity: Rare Earths Committee
U. R. Rodríguez; M. A. Hernández-Rodríguez; I. R. Martín; A. D. Lozano-Gorrín; V. Lavín.
- 52** **Title of the work:** Timing Synchronization for OFMD-based Visible Light Communication System
Name of the conference: Wireless Telecommunication Symposium
Type of participation: Participatory - oral communication
City of event: Londres, United Kingdom
Date of event: 18/04/2016
End date: 20/04/2016
Organising entity: WTS Program Committee
M. F. Guerra; O. González; S. Rodríguez; I. R. Martín.
- 53** **Title of the work:** Erbium (III) beta-diketonates as multifunctional materials for NIR-OLEDs and Single-Ion-Magnets
Name of the conference: 1st International Caparica Christmas Conference on Translational Chemistry
Type of participation: Participatory - oral communication
City of event: Caparica-Almada, Portugal
Date of event: 07/12/2015
End date: 10/12/2015
Organising entity: Proteomass Scientific Society
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.



- 54** **Title of the work:** Aluminate-based nanostructures. Stablishing a garnet-to-perovskite type border in the lanthanide series
Name of the conference: International Conference on f-Elements (ICFE 9)
Type of participation: Participatory - oral communication
City of event: Oxford, United Kingdom
Date of event: 06/09/2015
End date: 09/09/2015
Organising entity: Oxford University
A. D. Lozano-Gorrín; M. A. Hernández-Rodríguez; V. Monteseuro; U. R. Rodríguez-Mendoza; I. R. Martín; V. Lavín (*).
- 55** **Title of the work:** Carbon dots as temperature nanosensors in the physiological range
Name of the conference: International Conference on f-Elements (ICFE 9)
Type of participation: Participatory - poster
City of event: Oxford, United Kingdom
Date of event: 06/09/2015
End date: 09/09/2015
Organising entity: Oxford University
I. R. Martín; M. A. Hernández-Rodríguez; K. Soler-Carracedo; M. M. Afonso; J. A. Palenzuela.
- 56** **Title of the work:** Chemical and hydrostatic pressure effects on the spectroscopic properties of Nd³⁺-doped gallium nano-garnets
Name of the conference: International Conference on f-Elements (ICFE 9)
Type of participation: Participatory - oral communication
City of event: Oxford, United Kingdom
Date of event: 06/09/2015
End date: 09/09/2015
Organising entity: Oxford University
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 (*).
- 57** **Title of the work:** Spectroscopic properties of Nd³⁺ ions in YAlO₃ nano-perovskites
Name of the conference: International Conference on f-Elements (ICFE 9)
Type of participation: Participatory - poster
City of event: Oxford, United Kingdom
Date of event: 06/09/2015
End date: 09/09/2015
Organising entity: Oxford University
M. A. Hernández-Rodríguez; A. D. Lozano-Gorrín; V. Lavín; I. R. Martín; U. R. Rodríguez-Mendoza.
- 58** **Title of the work:** Temperature control through whispering gallery modes in microspheres
Name of the conference: International Conference on f-Elements (ICFE 9)
Type of participation: Participatory - poster
City of event: Oxford, United Kingdom
Date of event: 06/09/2015
End date: 09/09/2015
Organising entity: Oxford University
I. R. Martín; V. N. Sigaev; V. I. Savinkov; G. Yu Shakhgildian; V. R. Acosta-Lopez; K. Soler-Carracedo; M. A. Hernández-Rodríguez; S. Ríos.



- 59** **Title of the work:** Sistema de comunicación WHTS-SDMA-OFDM para entornos VLC con múltiples usuarios
Name of the conference: XXX Simposium Nacional de la Unión Científica Internacional de Radio
Type of participation: Participatory - oral communication
City of event: Pamplona, Spain
Date of event: 02/09/2015
End date: 04/09/2015
Organising entity: Universidad Pública de Navarra **Type of entity:** University
O. B. González (*); M. F. Guerra; I. R. Martín; F. A. Delgado; S. Rodríguez; A. J. Ayala.
- 60** **Title of the work:** Técnica de sincronización Temporal para sistemas OFDM en entornos VLC
Name of the conference: XXX Simposium Nacional de la Unión Científica Internacional de Radio
Type of participation: Participatory - oral communication
City of event: Pamplona, Spain
Date of event: 02/09/2015
End date: 04/09/2015
Organising entity: Universidad Pública de Navarra **Type of entity:** University
M. F. Guerra (*); O. B. González; I. R. Martín.
- 61** **Title of the work:** SYNTHESIS AND CHARACTERIZATION OPTICAL PROPERTIES OF Bi₄Ti₃O₁₂:Er NANOPARTICLES
Name of the conference: The 4TH International Conference on the Physics of Optical Materials and Devices (ICOM 2015)
Type of participation: 'Participatory - poster
City of event: Budva, Montenegro, Serbia
Date of event: 31/08/2015
End date: 04/09/2015
Organising entity: ICOM committee
S. Fuentes; P. Muñoz; J. Llanos; I. R. Martín.
- 62** **Title of the work:** UP-CONVERSION LUMINESCENCE, RAMAN AND THERMAL STABILITY OF BaTiO₃:Er³⁺
Name of the conference: The 4TH International Conference on the Physics of Optical Materials and Devices (ICOM 2015)
Type of participation: Participatory - oral communication
City of event: Budva, Montenegro, Serbia
Date of event: 31/08/2015
End date: 04/09/2015
Organising entity: ICOM committee
M. Vega; I. R. Martín; S. Fuentes; J. Llanos (*).
- 63** **Title of the work:** New erbium(III) beta-diketone complexes as near-infrared emitters
Name of the conference: XXIX Encontro Nacional da Sociedade Portuguesa de Química
Type of participation: 'Participatory - poster
City of event: Coimbra, Portugal
Date of event: 01/07/2015
End date: 03/07/2015
Organising entity: Sociedade Portuguesa de Química
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.



- 64** **Title of the work:** Structural studies of rare-earth doped and undoped nanocrystalline YAlO₃ perovskite
Name of the conference: IV Meeting of the Italian and Spanish Crystallographic Associations
Type of participation: 'Participatory - poster
City of event: Puerto de la Cruz, Spain
Date of event: 21/06/2015
End date: 27/06/2016
Organising entity: Universidad de La Laguna
A. D. Lozano-Gorriñ; M. A. Hernandez-Rodríguez; Virginia Monteseuro; I. R. Martín; U. R. Rodríguez-Mendoza; P. Hernández-Rodríguez; A. Muñoz; V. Lavín.
- 65** **Title of the work:** Yb³⁺-doped TeO₂-WO₃-ZrO₂ glasses for high power laser applications
Name of the conference: International Conference on Science, Technology and Applications of Rare Earths
Type of participation: 'Participatory - poster
City of event: Thiruvananthapuram,
Date of event: 23/04/2015
End date: 25/04/2015
Organising entity: Rare Earths Association of India
City organizing entity: India
G. Venkataiah; P. Babu; I. R. Martín; V. Lavín; K. Suresh; C. K. Jayasankar.
- 66** **Title of the work:** Slow Magnetic Relaxation Mechanisms in Erbium SIMs
Name of the conference: European f-Element Chemistry Research Conference
City of event: Lisboa, Portugal
Date of event: 11/04/2015
End date: 12/04/2015
Organising entity: COST Action CM1006
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.
- 67** **Title of the work:** Enhancement of near infrared emissions in Ho³⁺-Yb³⁺ co-doped transparent oxyfluoride nanocrystalline glass-ceramics
Name of the conference: International Seminar on Glasses and other Functional Materials
Type of participation: 'Participatory - poster
City of event: Nagarjuna Nagar, Guntur,
Date of event: 11/12/2014
End date: 13/12/2014
Organising entity: Department of Physics, Acharya Nagarjuna University
City organizing entity: India
P. Babu; I. R. Martín; Hyo Jin Seo; V. Venkatramu; C. K. Jayasankar; V. Lavín; V. Lavín.
- 68** **Title of the work:** Optimizing white light luminescence in Dy³⁺-doped Lu₃Ga₅O₁₂ nano-garnets
Name of the conference: International Seminar on Glasses and other Functional Materials
Type of participation: 'Participatory - poster
City of event: Nagarjuna Nagar, Guntur,
Date of event: 11/12/2014
End date: 13/12/2014
Organising entity: Department of Physics, Acharya Nagarjuna University
City organizing entity: India
P. Haritha; I. R. Martín; K. Linganna; V. Monteseuro; P. Babu; S. F. León-Luis; C. K. Jayasankar; U. R. Rodríguez-Mendoza; V. Lavín; V. Venkatramu.



- 69** **Title of the work:** Blue-green cooperative luminescence in Yb³⁺-doped tellurite glass
Name of the conference: DAE-BRNS National Laser Symposium (NLS-23)
Type of participation: 'Participatory - poster
City of event: Tirupati,
Date of event: 03/12/2014
End date: 06/12/2014
Organising entity: Department of Physics, Sri Venkateswara University
City organizing entity: India
P. Babu; I. R. Martin; G. Venkataiah; V. Venkatramu; C. K. Jayasankar; V. Lavin.
- 70** **Title of the work:** Improving the efficiency of photovoltaic solar cells using optically active materials
Name of the conference: 1er Taller de Conversión de Energía solar y Térmica en sistemas nanoestructurados
Type of participation: Participatory - invited/keynote talk
City of event: Antofagasta, Chile
Date of event: 05/10/2014
End date: 12/10/2014
Organising entity: Universidad Católica del Norte
I. R. Martín (*).
- 71** **Title of the work:** Diseño de un monocromador de alta resolución para el análisis de señales ópticas
Name of the conference: XXIX Simposium Nacional de la Unión Científica Internacional de Radio
Type of participation: 'Participatory - poster
City of event: Valencia, Spain
Date of event: 03/09/2014
End date: 05/09/2014
Organising entity: Universitat Politècnica de Valencia
M. F. Guerra Medina; F. Rivera López; L. L. Martín; V. Lavín; I. R. Martín; N. E. Capuj; O. González Hernández. Editorial Universitat Politècnica de València, ISBN 978-84-9048-264-3
- 72** **Title of the work:** Applications of the laser spectroscopy (Aplicaciones de la Espectroscopía Láser)
Name of the conference: Sesión Académica de la Academia Canaria de Ciencias
Type of participation: Participatory - invited/keynote talk
City of event: La Laguna, Spain
Date of event: 05/06/2014
Organising entity: Academia Canaria de Ciencias
I. R. Martín (*).
- 73** **Title of the work:** Rare earth optical pressure and temperature sensors
Name of the conference: Photoluminescence in Rare Earths (PRE'14)
Type of participation: Participatory - oral communication
City of event: San Sebastian, Spain
Date of event: 13/05/2014
End date: 16/05/2014
Organising entity: Commitee PRE'14
V. Lavín (*); S. F. León-Luis; U. R. Rodríguez-Mendoza; V. Monteseguro; J. E. Muñoz-Santiuste; I. R. Martín.



- 74** **Title of the work:** Structural peculiarities and emission features of Sm³⁺-doped
Name of the conference: Photoluminescence in Rare Earths (PRE'14)
Type of participation: Participatory - oral communication
City of event: San Sebastian, Spain
Date of event: 13/05/2014
End date: 16/05/2014
Organising entity: Committee PRE'14
W. Ryba-Romanowski (*); A. Strzep; Marek Berkowski; H. Rodríguez-Rodríguez; I. R. Martín.
- 75** **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
Name of the conference: Photoluminescence in Rare Earths (PRE'14)
Type of participation: Participatory - poster
City of event: San Sebastian, Spain
Date of event: 13/05/2014
End date: 16/05/2014
Organising entity: Committee PRE'14
P. Martín-Ramos; P. Chamorro-Posada; M. Ramos-Silva; P. S. Pereira da Silva; V. Lavín; I. R. Martín; F. Lahoz; J. Martín-Gil.
- 76** **Title of the work:** Localized heating of Nd³⁺-doped glasses using silica microspheres as focusing lenses
Name of the conference: NanoSpainConf
Type of participation: Participatory - oral communication
City of event: Madrid, Spain
Date of event: 11/03/2014
End date: 14/03/2014
Organising entity: NanoSpain
C. Pérez-Rodríguez (*); L. Labrador-Paez; S. Rios; I. R. Martín.
- 77** **Title of the work:** Applications of transparent microspheres: temperature optical sensors and focusing lenses to produce submicron spots
Name of the conference: International Conference on Advanced Functional Materials ICAFM 2014
Type of event: Conference
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: Thiruvananthapuram, India
Date of event: 19/02/2014
End date: 21/02/2014
Organising entity: CSIR-National Institute for interdisciplinari Science and Technology
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.
- 78** **Title of the work:** Optical pressure and Temperature sensors
Name of the conference: International Conference on Advanced Functional Materials ICAFM 2014
Type of event: Conference
Type of participation: Participatory - invited/keynote **Reasons for participation:** Upon invitation talk
City of event: Thiruvananthapuram, India
Date of event: 19/02/2014
End date: 21/02/2014
Organising entity: CSIR-National Institute for interdisciplinari Science and Technology



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.

- 79** **Title of the work:** Upconversion processes obtained in submicron spots produced by transparent microspheres
Name of the conference: Nonlinear optics and Materials
Type of participation: Participatory - invited/keynote talk
City of event: Kalavakkam, India
Date of event: 03/02/2014
End date: 21/02/2014
Organising entity: Department of Physics, College of Engineering Kalavakkam
I. R. Martín.
- 80** **Title of the work:** Clustering of aerosols in a potential-well trap
Name of the conference: Photonics West. OPTO
Type of participation: Participatory - oral communication
City of event: San Francisco. California,
Date of event: 01/02/2014
End date: 01/02/2014
Organising entity: SPIE
J. Moore (*); L. L. Martín; K. H. Kim; H. Chandralalim; M. Eichenfield; I. R. Martín; Tal E. Carmon.
- 81** **Title of the work:** High pressure tuning of whispering gallery mode resonances in a neodymium doped glass microsphere
Name of the conference: European High Pressure Research Group International Meeting (EHPRG51)
Type of participation: Participatory - oral communication
City of event: Londres, United Kingdom
Date of event: 01/09/2013
End date: 06/09/2013
Organising entity: EHPRG Committee
L. L. Martín(*); S. F. León-Luis; C. Pérez-Rodríguez; I. R. Martín; V. Lavín; U. R. Rodríguez-Mendoza.
- 82** **Title of the work:** Upconversion emission in rare earth doped materials under near infrared excitation using silica microspheres as focusing lenses
Name of the conference: WIO 2013 IEEE International workshop on Information Optics
Type of event: Workshop
Type of participation: Participatory - invited/keynote talk
City of event: Puerto de la Cruz, Canary Islands, Spain
Date of event: 15/07/2013
End date: 19/07/2013
Organising entity: Committee WIO
I. R. Martín(*); S. Rios; C. Pérez-Rodríguez; L. L. Martín.
- 83** **Title of the work:** Luminescence of f-elements under pressure
Name of the conference: 8th International Conference on f-Elements
Type of participation: Participatory - oral communication
City of event: Udine, Italy
Date of event: 26/08/2012
End date: 31/08/2012
Organising entity: Committee ICFE



V. Lavín(*); C. J. Jayasankar; F. Rivera-López; V. Venkatramu; I. R. Martín; U. R. Rodríguez-Mendoza; P. Babu.

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



End date: 28/09/2011

Organising entity: European Optical Society (EOS)

C.J. Pérez-Rodríguez(*); L.L. Martín; D. Navarro-Urrios; F. Ferrarese Lupi; P. Haro-González; I.R. Martín; N. E. Capuj.

- 89** **Title of the work:** Laser emission at 1060nm in Nd⁽³⁺⁾ doped glass microspheres without coupling devices.
Name of the conference: 2nd EOS Topical Meeting on Lasers (ETML11) and 4th EOS Topical Meeting on Optical Microsystems (O?S'11)
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Capri, Italia,
Date of event: 26/09/2011
End date: 28/09/2011
Organising entity: European Optical Society (EOS)
L.L. Martín(*); C.J. Pérez-Rodríguez; D. Navarro-Urrios; F. Ferrarese Lupi; P. Haro-González; I.R. Martín.; N. E. Capuj.
- 90** **Title of the work:** Rare earth luminescence under pressure
Name of the conference: 23th AIRAPT International Conference
Type of participation: Participatory - invited/keynote talk
City of event: Mumbai, India
Date of event: 25/09/2011
End date: 30/09/2011
Organising entity: AIRAPT and Materials Research Society of India
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. ISBN 8-18372-064-1
- 91** **Title of the work:** Upconverter RE³⁺ doped titania nanotubes
Name of the conference: The Third International Workshop on Advanced Spectroscopy and Optical Materials (IWASOM 2011)
Type of participation: Participatory - oral communication
City of event: Gdansk, Poland
Date of event: 17/07/2011
End date: 22/07/2011
Organising entity: Gdansk University and Polish Academy of Sciences
M. Pedroni, P. Haro-González(*), F. Peccinelli, A. Speghini; I. R. Martín, M. Bettinelli.
- 92** **Title of the work:** Synthesis, Characterization And Optical Spectroscopy Of Eu³⁺ Doped Titanate Nanotubes
Name of the conference: 16th International Conference on Luminescence and Optical Spectroscopy of Condensed Matter
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Ann Arbor, Michigan, United States of America
Date of event: 27/06/2011
End date: 01/07/2011
Organising entity: University of Michigan
P. Haro-González(*); M. Pedroni; L. L. Martín; F. Piccinelli; I. R. Martín; S. Polizzi; M. Bettinelli; and A. Speghini.



- 93** **Title of the work:** Whispering Gallery Modes In A GlassMicrosphere: Optimization Of Pumping In A Modified Confocal Microscope
Name of the conference: 16th International Conference on Luminescence and Optical Spectroscopy of Condensed Matter
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Ann Arbor, Michigan, United States of America
Date of event: 27/06/2011
End date: 01/07/2011
Organising entity: University of Michigan
L. L. Martín-Rodríguez (*), P. Haro-González, I. R. Martín, D. Navarro-Urrios, D. Alonso; C. Pérez-Rodríguez, D. Jaque and N. E. Capuj.
- 94** **Title of the work:** Energy transfer processes in Eu³⁺ doped nanocrystalline La₂TeO₆ phosphor
Name of the conference: 18th International Symposium on Metastable, Amorphous and Nanostructured Materials {ISMANAM 2011}
Type of participation: 'Participatory - poster
City of event: Gijón, Spain
Date of event: 26/06/2011
End date: 01/07/2011
Organising entity: University of Oviedo
J. Llanos, R. Castillo, I. R. Martín, L. L. Martín, C. Pérez-Rodríguez, P. Haro-González.
- 95** **Title of the work:** Formation of SBN nanocrystals under laser irradiation in nanocrystals under laser irradiation in Tm-Yb codoped glass
Name of the conference: 18th International Symposium on Metastable, Amorphous and Nanostructured Materials {ISMANAM 2011}
Type of participation: 'Participatory - poster
City of event: Gijón, Spain
Date of event: 26/06/2011
End date: 01/07/2011
Organising entity: University of Oviedo
I. R. Martín, P. Haro-González, C. Pérez-Rodríguez, L. L. Martín, D. Kowalska.
- 96** **Title of the work:** Desarrollo de materiales ópticamente activos como sensores de temperatura
Name of the conference: I simposio Español de Altas Presiones
Type of participation: Participatory - oral communication
City of event: Miraflores de la Sierra, Madrid, Spain
Date of event: 23/01/2011
End date: 27/01/2011
Organising entity: Malta Consolider Team and QUIMAPRES
I. R. Martín (*).
- 97** **Title of the work:** Direct writing glass ceramics lines in glass samples by laser irradiation
Name of the conference: Dynamical Processes in Excited States of Solids (DPC10)
Type of participation: Participatory - oral communication
City of event: Argonne, United States of America
Date of event: 20/06/2010
End date: 25/06/2010
Organising entity: Argonne National Laboratory
P. Haro-González (*); D. Kowalska; L.L. Martín; I.R. Martín.



- 98** **Title of the work:** Local devitrification of Dy³⁺ doped Ba₂TiSi₂O₈ glass by laser irradiation
Name of the conference: 3rd WORKSHOP ON PHOTOLUMINESCENCE IN RARE EARTHS
Type of participation: 'Participatory - poster
City of event: Florencia, Italy
Date of event: 28/04/2010
End date: 30/04/2010
Organising entity: SIOF
L.L. Martín; P. Haro-González; J. M. Cáceres; N. E. Capuj; I. R. Martín.
- 99** **Title of the work:** Pump and Probe measurement of optical amplification at 575 nm in dysprosium doped lithium niobate crystal
Name of the conference: 3rd WORKSHOP ON PHOTOLUMINESCENCE IN RARE EARTHS
Type of participation: 'Participatory - poster
City of event: Florencia, Italy
Date of event: 28/04/2010
End date: 30/04/2010
Organising entity: SIOF
P. Haro-González; L.L. Martín; I. R. Martín; G. Grazyna Dominiak-Dzik and W. Ryba-Romanowski.
- 100** **Title of the work:** Writing Strontium Barium Niobate nanocrystals lines in glass matrix by laser irradiation
Name of the conference: 3rd WORKSHOP ON PHOTOLUMINESCENCE IN RARE EARTHS
Type of participation: Participatory - oral communication
City of event: Florencia, Italy
Date of event: 28/04/2010
End date: 30/04/2010
Organising entity: SIOF
P. Haro-González(*); I.R. Martín; L. L. Martín; Alberto Hernández Creus.
- 101** **Title of the work:** Characterization of the Er³⁺ and Nd³⁺ doped strontium barium niobate glass-ceramic as temperature sensor.
Name of the conference: 5th Laser Ceramics Symposium: International Symposium on Laser Transparent Ceramics for Photonics Applications.
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Bilbao, Spain
Date of event: 09/12/2009
End date: 11/12/2009
Organising entity: Universidad del País Vasco y Centro de Física de Materiales (CSIC)
P. Haro-González, I. R. Martín, L.L. Martín and V. Lavín.
- 102** **Title of the work:** Characterization of the Er³⁺ ions in NaYF₄ nanocrystalline transparent glass-ceramics as temperature sensor.
Name of the conference: 5th Laser Ceramics Symposium: International Symposium on Laser Transparent Ceramics for Photonics Applications.
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Bilbao, Spain
Date of event: 09/12/2009
End date: 11/12/2009
Organising entity: Universidad del País Vasco y Centro de Física de Materiales (CSIC)



S. F. León-Luis, P. Haro-González, J.M. Cáceres, I. R. Martín, U.R. Rodríguez-Mendoza and V. Lavín.

- 103** **Title of the work:** Direct Writing Glass Ceramics Lines in Glass Samples by Laser Irradiation
Name of the conference: 5th Laser Ceramics Symposium: International Symposium on Transparent Ceramics for Photonics Applications
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Bilbao, Spain
Date of event: 09/12/2009
End date: 11/12/2009
Organising entity: Universidad del País Vasco y Centro de Física de Materiales (CSIC)
P. Haro-González, D. Kowalska, J.M. Cáceres and I.R. Martín.
- 104** **Title of the work:** Effect of Erbium content on the ferroelectric properties by optical measurements of SBN glass ceramics
Name of the conference: 5th Laser Ceramics Symposium: International Symposium on Transparent Ceramics for Photonics Applications
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Bilbao, Spain
Date of event: 09/12/2009
End date: 11/12/2009
Organising entity: Universidad del País Vasco y Centro de Física de Materiales (CSIC)
P. Haro-González and I.R. Martín.
- 105** **Title of the work:** Local structure and radiative probabilities of the rare earth ions in transparent B-PbF₂ nanostructured glass ceramic
Name of the conference: 5th Laser Ceramics Symposium: International Symposium on Transparent Ceramics for Photonics Applications
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Bilbao, Spain
Date of event: 09/12/2009
End date: 11/12/2009
Organising entity: Universidad del País Vasco y Centro de Física de Materiales (CSIC)
V. Lavín, I. R. Martín and A. Meijerink.
- 106** **Title of the work:** Optical Properties of Transparent Dy³⁺ Doped Ba₂TiSi₂O₈ Glass-Ceramic
Name of the conference: 5th Laser Ceramics Symposium: International Symposium on Transparent Ceramics for Photonics Applications
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Bilbao, Spain
Date of event: 09/12/2009
End date: 11/12/2009
Organising entity: Universidad del País Vasco y Centro de Física de Materiales (CSIC)
L.L. Martín, P. Haro-González, J.M. Cáceres. A.D. Lozano-Gorrín and I.R. Martín.
- 107** **Title of the work:** Stimulated emission of radiation in the blue, green and red regions in a glass-ceramics materials
Name of the conference: 5th Laser Ceramics Symposium: International Symposium on Transparent Ceramics for Photonics Applications



Type of event: Conference

Type of participation: 'Participatory - poster

City of event: Bilbao, Spain

Date of event: 09/12/2009

End date: 11/12/2009

Organising entity: Universidad del País Vasco y Centro de Física de Materiales (CSIC)

F. Lahoz, N. Capuj, P. Haro-González, I.R. Martín and C. Pérez-Rodríguez.

108 Title of the work: Length scale of energy transfer mechanisms in Er³⁺-Yb³⁺ codoped waveguides

Name of the conference: International Conference on Laser Ablation (COLA'09)

Type of participation: 'Participatory - poster

City of event: Singapore, Singapore

Date of event: 22/11/2009

End date: 27/11/2009

Organising entity: Committee COLA

P. Haro-González, I. R. Martín, F. Lahoz, N. Capuj; D. Muñoz, J. Gonzalo, C. N. Afonso.

109 Title of the work: Analysis of the upconversion mechanisms using a double pulse laser experiment with a variable temporal delay between pulses

Name of the conference: 5th International Symposium on Laser, Scintillator and Non Linear Optical Material

Type of participation: 'Participatory - poster

City of event: Pisa, Italy

Date of event: 03/09/2009

End date: 05/09/2009

Organising entity: Pisa University

I. R. Martín; P. Haro-González and L. L. Martín. ISBN 978-88-8492-638-8

110 Title of the work: Crystallization effect on Tm³⁺-Yb³⁺ codoped SBN glass ceramic

Name of the conference: 5th International Symposium on Laser, Scintillator and Non Linear Optical Material

Type of participation: 'Participatory - poster

City of event: Pisa, Italy

Date of event: 03/09/2009

End date: 05/09/2009

Organising entity: Pisa University

P. Haro-González; I. R. Martín; L. L. Martín; D. Kowalska and J.M. Caceres. ISBN 978-88-8492-638-8

111 Title of the work: Formation of Nd³⁺ doped Strontium Barium Niobate nanocrystals by two different methods

Name of the conference: 5th International Symposium on Laser, Scintillator and Non Linear Optical Material

Type of participation: 'Participatory - poster

City of event: Pisa, Italy

Date of event: 03/09/2009

End date: 05/09/2009

Organising entity: Pisa University

P. Haro-González; L. L. Martín; S. González-Pérez and I. R. Martín. ISBN 978-88-8492-638-8



- 112 Title of the work:** Optical amplification by upconversion in Tm-Yb fluorindate glass
Name of the conference: 5th International Symposium on Laser, Scintillator and Non Linear Optical Material
Type of participation: 'Participatory - poster
City of event: Pisa, Italy
Date of event: 03/09/2009
End date: 05/09/2009
Organising entity: Pisa University
P. Haro-González, F. Lahoz, I. R. Martín, S. Gonzalez-Pérez, N. Capuj. ISBN 978-88-8492-638-8
- 113 Title of the work:** Study of nanostructure distribution of Er³⁺-Yb³⁺ codoped on porous silicon thin film
Name of the conference: 5th International Symposium on Laser, Scintillator and Non Linear Optical Material
Type of participation: 'Participatory - poster
City of event: Pisa, Italia,
Date of event: 03/09/2009
End date: 05/09/2009
Organising entity: Pisa University
P. Haro-González; I.R. Martín; L.L. Martín; D. Muñoz; J. Gonzalo; C.N. Afonso; F. Lahoz; N.E. Capuj. ISBN 978-88-8492-638-8
- 114 Title of the work:** Transfer and back transfer processes in Yb³⁺-Er³⁺ codoped Strontium Barium Niobate glass-ceramics
Name of the conference: 5th International Symposium on Laser, Scintillator and Non Linear Optical Material
Type of participation: 'Participatory - poster
City of event: Pisa, Italy
Date of event: 03/09/2009
End date: 05/09/2009
Organising entity: Pisa University
L. L. Martín; P. Haro-González, I.R. Martín, A. Martínez-Javaloy and A. Mújica. ISBN 978-88-8492-638-8
- 115 Title of the work:** Neodymium fluorescence-based probe of pressure-induced structural phase transition in SrWO₄ crystals.
Name of the conference: AIRAPT-22 and HPCJ-50 Internacional Conference on High Pressure Science and Technology.
Type of participation: 'Participatory - poster
City of event: Tokyo, Japan
Date of event: 26/07/2009
End date: 31/07/2009
Organising entity: Tokyo International Exchange Center
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. ISSN 0917-6373
- 116 Title of the work:** Characterization of Er³⁺ and Ho³⁺ doped fluorindate glasses as temperature sensors
Name of the conference: 18th International Laser Physics
Type of participation: 'Participatory - poster
City of event: Barcelona, Spain
Date of event: 13/07/2009
End date: 17/07/2009
Organising entity: RAS and ICFO
D Kowalska; S González-Pérez; SF Leon Luis; P Haro-González; IR Martín.



- 117** **Title of the work:** Nanocrystals formation on Ho³⁺ doped Strontium Barium Niobate glass by thermal treatment and laser irradiation
Name of the conference: 18th International Laser Physics
Type of participation: 'Participatory - poster
City of event: Barcelona, Spain
Date of event: 13/07/2009
End date: 17/07/2009
Organising entity: RAS and ICFO
P. Haro-González; S. González-Pérez; L. L. Martín and I. R. Martín.
- 118** **Title of the work:** Femtosecond Laser Induced Structural Changes in Strontium Barium Niobate Glasses Doped with Er³⁺ Ions
Name of the conference: 4th Laser Ceramics Symposium
City of event: Shanghai, China
Date of event: 10/11/2008
End date: 14/11/2008
Organising entity: Shangai Institute of Ceramics and Chinese Academy od Sciencies
P. Haro-González; I. R. Martín; S. González-Pérez; L. L. Martin; F. Lahoz; D. Puerto; J. Solís.
- 119** **Title of the work:** Microcrystallization in oxyfluoride Nd(3+) doped glass ceramic due to laser irradiation
Name of the conference: 4th Laser Ceramics Symposium
Type of participation: 'Participatory - poster
City of event: Shangai, China
Date of event: 10/11/2008
End date: 14/11/2008
Organising entity: Shangai Institute of Ceramics and Chinese Academy od Sciencies
S. González-Pérez, P. Haro-González and I. R. Martín.
- 120** **Title of the work:** Optical gain by upconversion in Tm-Yb oxyfluoride glass ceramics
Name of the conference: 4th Laser Ceramics Symposium
Type of participation: 'Participatory - poster
City of event: Shangai, China
Date of event: 10/11/2008
End date: 14/11/2008
Organising entity: Shangai Institute of Ceramics and Chinese Academy od Sciencies
P. Haro-González, F. Lahoz, I. R. Martín, S. González-Pérez and N. Capuj.
- 121** **Title of the work:** Time Resolved Photoluminescence Spectroscopy Of Er³⁺ Doped Sbn Glass And Glass Ceramics
Name of the conference: The First International Conference on RARE EARTH MATERIALS (REMAT'08)
Type of participation: 'Participatory - poster
City of event: Karpacz, Poland
Date of event: 21/09/2008
End date: 26/09/2008
Organising entity: Research Center and University of Wroclaw
D Kowalska; P Haro-Gonzalez; IR Martín; Sara González Pérez.
- 122** **Title of the work:** Laser irradiation of an oxyfluoride glass doped with Tm³⁺ and Yb³⁺ ions
Name of the conference: Third International Conference on Optical, Optoelectronic and Photonic Materials
Type of participation: 'Participatory - poster



City of event: Edmonton, Canada
Date of event: 20/07/2008
End date: 25/07/2008
Organising entity: Committee COOPMA
Sara Gonzalez Perez; IR Martin; F. Lahoz; P. Haro-González.

- 123** **Title of the work:** Cooperative luminescence and second harmonic generation in Yb³⁺-Er³⁺:Y(BO₃)
Name of the conference: 15th International Conference on Luminescence and Optical Spectroscopy of
Type of participation: 'Participatory - poster
City of event: Lyon, France
Date of event: 07/07/2008
End date: 11/07/2008
Organising entity: Universite Claude Bernard Lyon 1
P Haro-González, V. Sánchez-Fajardo, F. Rivera-López, I. R. Martín, A.D., Lozano-Gorrín; M. E. Torres.
- 124** **Title of the work:** Crystallization effect on Er³⁺- doped SBN glass ceramic
Name of the conference: 15th International Conference on Luminescence and Optical Spectroscopy of
Type of participation: 'Participatory - poster
City of event: Lyon, France
Date of event: 07/07/2008
End date: 11/07/2008
Organising entity: Universite Claude Bernard Lyon 1
P Haro-González; IR Martín; NE Capuj; F Lahoz; S. González-Pérez.
- 125** **Title of the work:** Optical gain in Er³⁺-doped transparent LuVO₄ crystal at 850 nm
Name of the conference: 15th International Conference on Luminescence and Optical Spectroscopy of
Type of participation: 'Participatory - poster
City of event: Lyon, France
Date of event: 07/07/2008
End date: 11/07/2008
Organising entity: Universite Claude Bernard Lyon 1
P Haro-González, M. Bettinelli, E. Cavalli, N.E. Capuj, F. Lahoz and I.R. Martín.
- 126** **Title of the work:** Infrared and upconversion emissions in Er³⁺-Yb³⁺ co-doped metaphosphate laser glasses.
Name of the conference: NCAMDT-2008, National Conference on Advanced Materials Devices and Technologies.
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Tirupati, India
Date of event: 20/02/2008
End date: 22/02/2008
Organising entity: Department of Physics. Sri Venkateswara University (Tirupati). India
P. Babu, F. Rivera-López, R. Vijaya, V. Lavín, I.R. Martín, U.R. Rodríguez-Mendoza; L. Rama Moorthy and C. K. Jayasankar.
- 127** **Title of the work:** Energy transfer and upconversion in Nd³⁺-Yb³⁺ codoped metaphosphate laser glasses.
Name of the conference: ICLA-2008, International Conference on Luminescence and Applications.
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: New Delhi, India



Date of event: 13/02/2008

End date: 16/02/2008

Organising entity: National Physical Laboratory, New Delhi, India

P. Babu, R. Vijaya, F. Rivera-López, V. Lavín, I.R. Martín, U.R. Rodríguez-Mendoza; L. Rama Moorthy and C. K. Jayasankar.

128 Title of the work: Energy Transfer influence on the optical properties of Er-Yb codoped a-Al₂O₃ thin films

Name of the conference: International Conference on Laser Ablation (COLA 2007)

Type of participation: 'Participatory - poster

City of event: Guía de Isora, Spain

Date of event: 24/09/2007

End date: 28/09/2007

Organising entity: Instituto de Óptica Daza de Valdés (CSIC)

F. Lahoz, P Haro-González and I. R. Martín.

129 Title of the work: Laser irradiation in Er³⁺ doped strontium barium niobate glasses

Name of the conference: International Conference on Laser Ablation (COLA 2007)

Type of participation: 'Participatory - poster

City of event: Guía de Isora, Spain

Date of event: 24/09/2007

End date: 28/09/2007

Organising entity: Instituto de Óptica Daza de Valdés (CSIC)

P Haro-González; E. Arbelo, A. J. Afonso, I. R. Martín and F. Lahoz.

130 Title of the work: Local Growth of Nanocrystals In An Oxyfluoride Glass Doped With Er³⁺ Ions using a Continuous Argon Laser

Name of the conference: International Conference on Laser Ablation (COLA 2007)

Type of participation: 'Participatory - poster

City of event: Guía de Isora, Spain

Date of event: 24/09/2007

End date: 28/09/2007

Organising entity: Instituto de Óptica Daza de Valdés (CSIC)

Sara Gonzalez Perez; IR Martín; F Lahoz; P Haro-González; M. D. Ramos.

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

Name of the conference: International Conference on Laser Ablation (COLA 2007)

Type of participation: 'Participatory - poster

City of event: Guía de Isora, Spain

Date of event: 24/09/2007

End date: 28/09/2007

Organising entity: Instituto de Óptica Daza de Valdés (CSIC)

F. Lahoz, P Haro-González, F. Rivera, S. González-Pérez and I. R. Martín.

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

Name of the conference: Joint 21st AIRAPT and 45 th EHPRG Int. Conference.

Type of event: Conference

Type of participation: 'Participatory - poster

City of event: Catania, Italy

Date of event: 17/09/2007



End date: 21/09/2007

Organising entity: Committee EHPRG

Fernando Rivera-López, Ulises R. Rodríguez Mendoza, Inocencio R. Martín; Sara González-Pérez and Víctor Lavín.

- 133** **Title of the work:** Growth of Nanocrystals in A Nd³⁺- Yb³⁺ Codoped Oxyfluoride Glass By Laser Irradiation
Name of the conference: International Conference on Surface Coating and Nanostructured Materials (NanoSMat 2007)
Type of participation: 'Participatory - poster
City of event: Algarve, Portugal
Date of event: 09/07/2007
End date: 11/07/2007
Organising entity: NanoSmat Committee
Sara Gonzalez Perez; IR Martín; D. Jaque; P. Haro-Gonzalez.
- 134** **Title of the work:** 850 nm optical amplification in Er³⁺-doped transparent Ba₂NaNb₅O₁₅ single crystal
Name of the conference: 16th International Conference on Dynamical Processes in Excited States of Solids (DPC07)
Type of participation: 'Participatory - poster
City of event: Segovia, Madrid, Spain
Date of event: 17/06/2007
End date: 22/06/2007
Organising entity: Universidad Autónoma de Madrid
P. Haro-González; E. Cavalli, F. Lahoz, I. R. Martín and N. E. Capuj.
- 135** **Title of the work:** Desvitrification on an oxyfluoride glass doped with Tm³⁺ and Yb³⁺ ions under Ar laser irradiation
Name of the conference: 16th International Conference on Dynamical Processes in Excited States of Solids (DPC07)
Type of participation: 'Participatory - poster
City of event: Segovia, Madrid, Spain
Date of event: 17/06/2007
End date: 22/06/2007
Organising entity: Universidad Autónoma de Madrid
Sara Gonzalez Perez; IR Martin; P. Haro-González; F. Lahoz; D. Jaque; N. Capuj.
- 136** **Title of the work:** Increase of the blue upconversion emission in YAG:Tm³⁺ nanopowders by codoping with Yb³⁺ ions
Name of the conference: 16th International Conference on Dynamical Processes in Excited States of Solids (DPC07)
Type of participation: 'Participatory - poster
City of event: Segovia, Madrid, Spain
Date of event: 17/06/2007
End date: 22/06/2007
Organising entity: Universidad Autónoma de Madrid
S. González-Pérez; P. Haro-González; M. Liu; S.W. Wang; N. Capuj; F. Lahoz and I. R. Martín.
- 137** **Title of the work:** Optical Spectroscopy of Eu³⁺ and Er³⁺-doped TeO₂-PbF₂-CdF₂ glasses and glass-ceramics
Name of the conference: 16th International Conference on Dynamical Processes in Excited States of Solids (DPC07)
Type of participation: 'Participatory - poster



City of event: Segovia, Madrid, Spain

Date of event: 17/06/2007

End date: 22/06/2007

Organising entity: Universidad Autónoma de Madrid

U. R. Rodríguez-Mendoza, V. Lavín, J. M. Cáceres, I. R. Martín, F. Rivera, E. Lalla and F. Lahoz.

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

Name of the conference: 16th International Conference on Dynamical Processes in Excited States of Solids (DPC07)

Type of participation: 'Participatory - poster

City of event: Segovia, Madrid, Spain

Date of event: 17/06/2007

End date: 22/06/2007

Organising entity: Universidad Autónoma de Madrid

P. Haro-González; F. Lahoz; J. González-Platas; JM Cáceres; Sara Gonzalez Perez; D. Marrero-López; N. Capuj; IR Martin.

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

Name of the conference: 2nd workshop on Photoluminescence In Rare Earths: Photonic Materials And Devices (Pre'07)

Type of participation: 'Participatory - poster

City of event: Trento, Italy

Date of event: 31/05/2007

End date: 01/06/2007

Organising entity: Committee PRE'07

Sara Gonzalez Perez; IR Martin; F. Rivera; P. Haro-González; N. Capuj.

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

Name of the conference: 2nd workshop on Photoluminescence In Rare Earths: Photonic Materials And Devices (Pre'07)

Type of participation: 'Participatory - poster

City of event: Trento, Italy

Date of event: 31/05/2007

End date: 01/06/2007

Organising entity: Committee PRE'07

P. Haro-González. F. Lahoz, I. R. Martín, S. González-Pérez; F. Rivera-López, D. Navarro-Urrios and N.E. Capuj.

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

Name of the conference: SPIE European Symposium on Microtechnologies for the New Millennium

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Maspalomas, Gran Canaria, España, Spain

Date of event: 02/05/2007

End date: 04/05/2007

Organising entity: Committee SPIE

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



- 142 Title of the work:** Local Temperature Control on an Oxyfluoride Glass Doped With Er³⁺ Ions Under Diode Laser Irradiation
Name of the conference: International Conference on the Structure of Non-Crystalline Materials (NCM10)
Type of participation: 'Participatory - poster
City of event: Praga, Czech Republic
Date of event: 18/09/2006
End date: 22/09/2006
Organising entity: Committee NCM10
Sara Gonzalez Perez; IR Martin; D. Jaque; N. Capuj; F. Lahoz.
- 143 Title of the work:** Temperature Dependence of Nd³⁺-Yb³⁺ Energy Transfer Processes In Codoped Oxyfluoride Glass-Ceramics
Name of the conference: International Conference on the Structure of Non-Crystalline Materials (NCM10)
Type of participation: 'Participatory - poster
City of event: Praga, Czech Republic
Date of event: 18/09/2006
End date: 22/09/2006
Organising entity: Committee NCM10
Sara Gonzalez Perez; F. Rivera López; I.R. Martín; V. Lavín; F. Lahoz; UR Rodriguez Mendoza.
- 144 Title of the work:** Analysis of the Eu³⁺ emission in a SrWO₄ laser matrix under pressure
Name of the conference: European High Pressure Group EHPRG '06
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Praga, Czech Republic
Date of event: 04/09/2006
End date: 08/09/2006
Organising entity: Committee EHPRG
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.
- 145 Title of the work:** Dielectric, Structural and optical study of BNN:Nd³⁺ laser crystal
Name of the conference: 6th Internacional Conference on f-elements, ICFE6.
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Wroclaw, Poland
Date of event: 04/09/2006
End date: 09/09/2006
Organising entity: Committee ICFE6
M. E. Torres, S. A. Kaminskii, C. González-Silgo, J. González Platas, D. Jaque, A. Ródenas; I. R. Martín and V. Lavín. ISBN 83-7085-965-8
- 146 Title of the work:** Effect of pressure on the luminescence properties of Nd³⁺ doped SrWO₄ laser crystal.
Name of the conference: 6th Internacional Conference on f-elements, ICFE6.
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Wroclaw, Poland
Date of event: 04/09/2006
End date: 09/09/2006
Organising entity: Committee ICFE6



D. Errandonea, G. Jia, Ch. Tu, I. R. Martín, U. R. Rodríguez-Mendoza, F. Lahoz, M. E. Torres; V. Lavín.
ISBN 83-7085-965-8

- 147** **Title of the work:** High Pressure luminescence in Nd³⁺ doped MgO: LiNbO₃.
Name of the conference: European High Pressure Group EHPRG '06.
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Praga, Czech Republic
Date of event: 04/09/2006
End date: 08/09/2006
Organising entity: Committee EHPRG
U. R. Rodríguez Mendoza, A. Ródenas, D. Jaque, I.R. Martín, F. Lahoz and V. Lavín.
- 148** **Title of the work:** Pressure effects on the Eu³⁺ local structure in silicate glasses. Influence of the J-mixing on the crystal-field analysis.
Name of the conference: European High Pressure Group EHPRG '06
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Praga, Czech Republic
Date of event: 04/09/2006
End date: 08/09/2006
Organising entity: Committee EHPRG
F. Rivera-López, J. E. Muñoz-Santiuste, U. R. Rodríguez-Mendoza, S. González-Pérez; I. R. Martín, F. Lahoz and V. Lavín.
- 149** **Title of the work:** Pressure- and temperature-induced structural phase transitions in fluoride matrices monitoring by Eu³⁺ luminescence
Name of the conference: European High Pressure Group EHPRG '06.
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Praga, Czech Republic
Date of event: 04/09/2006
End date: 08/09/2006
Organising entity: Committee EHPRG
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.
- 150** **Title of the work:** Nuevos materiales vitrocerámicos nanoestructurados para aplicaciones ópticas.
Name of the conference: IX Congreso Nacional de Materiales.
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Vigo, Spain
Date of event: 20/06/2006
End date: 22/06/2006
Organising entity: Sociedad Española de Materiales
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. Servizo de Publicacións da Universidade de Vigo, 2006, ISBN 84-8158-325-1
Legal deposit: C-1461-2006



- 151 Title of the work:** Optical gain in oxidized porous silicon waveguides impregnated with a laser dye
Name of the conference: Porous Semiconductors Science and Technology 2006
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Sitges, Spain
Date of event: 14/03/2006
End date: 19/03/2006
Organising entity: Committee PSST
C. J. Oton (*), D. Navarro-Urrios, M. Ghulinyan, N. E. Capuj, S. Gonzalez-Perez, F. Lahoz; I. R. Martín and L. Pavesi.
- 152 Title of the work:** Waveguiding, absorption and emission properties of dye-impregnated oxidized porous silicon
Name of the conference: Porous Semiconductors Science and Technology 2006
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Sitges, Spain
Date of event: 14/03/2006
End date: 19/04/2006
Organising entity: Committee PSST
D. Navarro-Urrios (*), M. ghulinyan, N. E. Capuj, C. J. Oton, F. Riboli, I.R. Martin, L. Pavesi.
- 153 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.
Name of the conference: E-MRS Fall Meeting 2005.
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Warsaw, Poland
Date of event: 05/09/2005
End date: 09/09/2005
Organising entity: European Materials Research Society
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.
- 154 Title of the work:** Optical properties of rare earths doped oxyfluoride glass-ceramics
Name of the conference: E-MRS Fall Meeting 2005.
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Warsaw, Poland
Date of event: 05/09/2005
End date: 09/09/2005
Organising entity: European Materials Research Society
F. Lahoz (*), I. R. Martín, V. Lavín, U. R. Rodríguez-Mendoza, J. M. Cáceres, F. Rivera-López; S. gonzález-pérez.
- 155 Title of the work:** Porous silicon based Notch filters and waveguides
Name of the conference: SPIE Microtechnologies for the New Millenium
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Sevilla, Spain
Date of event: 09/05/2005



End date: 11/05/2005

C. J. Oton(*), E. Lorenzo, N. Capuj, F. Lahoz, I. R. Martín, D. Navarro, M. Ghulinyan, F. Sbrana; Z. Gaburro and L. Pavesi.

- 156 Title of the work:** Energy transfer processes among Nd³⁺-Yb³⁺ ions in codoped oxyfluoride glass-ceramics.
Name of the conference: 1st International Workshop on Photoluminescence in Rare-Earths: Photonic Materials and Devices.
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Trento, Italy
Date of event: 02/05/2005
End date: 03/05/2005
Organising entity: Committee Pre05 (Trento)
I.R. Martín, J. M. Almenara, V. Lavín, F. Lahoz, U. R. Rodríguez-Mendoza, J. M. Cáceres and D. Jaque.

- 157 Title of the work:** IR-to-visible frequency upconversion processes in Ho³⁺-doped low-phonon energy fluoride matrices.
Name of the conference: 1st International Workshop on Photoluminescence in Rare-Earths: Photonic Materials and Devices.
Type of event: Conference
Type of participation: Participatory - oral communication
City of event: Trento, Italy
Date of event: 02/05/2005
End date: 03/05/2005
Organising entity: Committee Pre05 (Trento)
F. Rivera-López, V. Lavín(*), I. R. Martín, F. Lahoz, U. R. Rodríguez-Mendoza and J. M. Cáceres.

- 158 Title of the work:** Temperature and pressure induced phase transitions in malonate crystal and fluorozirconate glass monitoring the Eu³⁺ luminescence.
Name of the conference: II Reunión de la SETN y XV Symposium del GEC.
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
Date of event: 20/09/2004
End date: 25/09/2004
Organising entity: Puerto de la Cruz, Tenerife, España.
V. Lavín(*), I. R. Martín, F. Lahoz, U. R. Rodríguez-Mendoza, M. Hernández-Molina and C. Ruiz-Pérez.

- 159 Title of the work:** Infrared-to-visible photon avalanche upconversion dynamics in Ho³⁺-doped fluorozirconate glasses at room temperature.
Name of the conference: International Workshop: Photonics and electronic materials.
Type of event: Conference
Type of participation: 'Participatory - poster
Date of event: 15/06/2004
Organising entity: San Sebastián
V. Lavín, F. Lahoz, I. R. Martín and U. R. Rodríguez-Mendoza.

- 160 Title of the work:** Rare earths in nanocrystalline glass-ceramics.
Name of the conference: International Workshop: Photonics and electronic materials.
Type of event: Conference
Type of participation: 'Participatory - poster
Date of event: 15/06/2004



Organising entity: San Sebastián

F. Lahoz, I. R. Martín, U. R. Rodríguez-Mendoza, I. Iparraguirre, J. Azkargorta; A. Mendioroz and R. Balda.

- 161 Title of the work:** Spectroscopy characterization of Pr³⁺ ions in transparent oxyfluoride glass and glass-ceramic.
Name of the conference: 4th International Spring Workshop on Spectroscopy, Structure and Synthesis of Rare Earth Systems.
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Ladek Zdroj, Poland
Date of event: 21/06/2003
End date: 26/06/2003
Organising entity: University of Wroclaw
R. T. Génova, I. R. Martín, U. R. Rodríguez-Mendoza, A. D. Lozano-Gorrín, P. Núñez and V. Lavín.
- 162 Title of the work:** Optical properties of Eu³⁺ ions in malonate crystals to monitor a structural phase transition.
Name of the conference: 19th Congress of the International Commission of Optics (ICO 2002).
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Florencia, Italy
Date of event: 25/08/2002
End date: 31/08/2002
I. R. Martín, F. Lahoz, V. Lavín and M. Hernández-Molina.
- 163 Title of the work:** Room temperature photon avalanche upconversion in Ho³⁺ doped fluoroindate glasses under excitation at 749 nm
Name of the conference: 19th Congress of the International Commission of Optics (ICO 2002).
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Florencia, Italy
Date of event: 25/08/2002
End date: 31/08/2002
F. Lahoz, I. R. Martín, U. R. Rodríguez-Mendoza, V. L. GUadalupe and J. Méndez-Ramos.
- 164 Title of the work:** Optical properties of rare earth doped transparent oxyfluoride glass ceramics.
Name of the conference: Europhysical Conference on Defects in insulating Materials (Eurodim 2002).
Type of participation: Participatory - oral communication
City of event: Wroclaw, Poland
Date of event: 01/07/2002
End date: 05/07/2002
J. Méndez-Ramos(*), I. R. Martín, V. Lavín, U. R. Rodríguez-Mendoza; A. D. Lozano-Gorrín, P. Núñez and V. D. Rodríguez.
- 165 Title of the work:** Optical properties of Pr³⁺ in transparent oxyfluoride glasses and glass-ceramics
Name of the conference: Rare Earths 2001
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Campos do Jordao, Brazil
Date of event: 22/09/2001
End date: 26/09/2001



Organising entity: Instituto de Química USP

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

166 Title of the work: Time-resolved spectroscopy of Eu³⁺ in K₂YF₅ laser crystals

Name of the conference: Rare Earths 2001

Type of event: Conference

Type of participation: 'Participatory - poster

City of event: Campos do Jordao, Brazil

Date of event: 22/09/2001

End date: 26/09/2001

Organising entity: Instituto de Química USP

J. Herrero-Cedrés, N. M. Khaidukov, I. R. Martín, V. Lavín, U. R. Rodríguez-Mendoza, V. D. Rodríguez.

167 Title of the work: Spectroscopic monitoring of the Eu³⁺ ion local structure in the pressure induced amorphization of EuZrF₇ polycrystal

Name of the conference: XXXIX European High Pressure Group Meeting

Type of event: Conference

Type of participation: 'Participatory - poster

City of event: Santander, Spain

Date of event: 16/09/2001

End date: 19/09/2001

Organising entity: European High Pressure Commission

V. Lavín, Th. Tröster, U. R. Rodríguez-Mendoza, I. R. Martín, V. D. Rodríguez.

168 Title of the work: Optical spectroscopy of Eu³⁺-doped GaN semiconductor nanoparticles

Name of the conference: International Conference on Dynamical Processes in Excited States of Solids (DPC'01)

Type of event: Conference

Type of participation: 'Participatory - poster

City of event: Lyon, France

Date of event: 01/07/2001

End date: 04/07/2001

Organising entity: Université Claude Bernard Lyon I

A. El-Himri, D. Pérez-Coll, P. Núñez, I. R. Martín, V. Lavín, V. D. Rodríguez.

169 Title of the work: Upconversion dynamics in Yb³⁺-Tm³⁺ codoped oxyfluoride glass ceramics.

Name of the conference: International Conference on Dynamical Processes in Excited States of Solids (DPC'01)

Type of event: Conference

Type of participation: 'Participatory - poster

City of event: Lyon, France

Date of event: 01/07/2001

End date: 04/07/2001

Organising entity: Université Claude Bernard Lyon I

J. Méndez-Ramos, A. B. Soria, I. R. Martín, A. D. Lozano-Gorrín and V.D. Rodríguez.

170 Title of the work: Ácido Malónico, una nueva alternativa en ingeniería cristalina: Malonatos de tierras raras (La, Gd, Eu y Pr).

Name of the conference: XII Simposio G.E.C.

Type of event: Conference

Type of participation: Participatory - oral communication

City of event: Castellón, Spain

Date of event: 28/06/2001

End date: 30/06/2001

Organising entity: Grupo Especializado de Cristalografía

M. Hernández-Molina, P. Lorenzo Luis, T. López, I. R. Martín; E. H. Bocanegra, G. Orpen, C. Ruiz-Pérez.

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

Name of the conference: 4th International Conference on f-elements (ICFE4)

Type of event: Conference

Type of participation: 'Participatory - poster

City of event: Madrid, Spain

Date of event: 17/09/2000

End date: 21/09/2000

Organising entity: Comité ICFE

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

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

Name of the conference: 4th International Conference on f-elements (ICFE4)

Type of event: Conference

Type of participation: 'Participatory - poster

City of event: Madrid, Spain

Date of event: 17/09/2000

End date: 21/09/2000

Organising entity: Comité ICFE

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

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

Name of the conference: 4th International Conference on f-elements (ICFE4)

Type of event: Conference

Type of participation: 'Participatory - poster

City of event: Madrid, Spain

Date of event: 17/09/2000

End date: 21/09/2000

Organising entity: Comité ICFE

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.

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

Name of the conference: 4th International Conference on f-elements (ICFE4)

Type of event: Conference

Type of participation: 'Participatory - poster

City of event: Madrid, Spain

Date of event: 17/09/2000

End date: 21/09/2000

Organising entity: Comité ICFE

I. R. Martín, Y. Guyot, M. F. Joubert, R. Yu. Abdulsabirov; S. L. Korableva and V. V. Semashko.



- 175** **Title of the work:** Propiedades ópticas de vitrocerámicos transparentes de oxifluoruros dopados con Eu3+
Name of the conference: 9ª Reunión Científica Plenaria de Química Inorgánica. 3ª Reunión Científica Plenaria de Química de Estado Sólido
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Bilbao, Spain
Date of event: 05/09/2000
End date: 09/09/2000
A. D. Lozano-Gorrín, P. Núñez, J. Méndez-Ramos, V. Lavín, I. R. Martín, U. R. Rodríguez-Mendoza; V. D. Rodríguez.
- 176** **Title of the work:** Dependence on Yb3+ concentration of the Ho3+ upconversion dynamics in fluoroindate glasses.
Name of the conference: Rencontre Franco-Espagnole
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Bourdeaux, France
Date of event: 23/03/2000
End date: 27/03/2000
Organising entity: Comité Rencontre Franco-Espagnole
J. Méndez-Ramos, I. R. Martín, V. Lavín, U. R. Rodríguez-Mendoza; V. D. Rodríguez and P. Núñez.
- 177** **Title of the work:** Optical properties of Eu3+ ions in glass ceramics for laser applications
Name of the conference: Rencontre Franco-Espagnole
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Bourdeaux, France
Date of event: 23/03/2000
End date: 27/03/2000
Organising entity: Comité Rencontre Franco-Espagnole
J. Méndez-Ramos, V. Lavín, I. R. Martín, U. R. Rodríguez-Mendoza, V. D. Rodríguez, P. Núñez; A. D. Lozano Gorrín.
- 178** **Title of the work:** Red to blue photon avalanche upconversion in Tm3+ doped laser materials.
Name of the conference: Rencontre Franco-Espagnole
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Bourdeaux, France
Date of event: 23/03/2000
End date: 27/03/2000
Organising entity: Comité Rencontre Franco-Espagnole
M.-F. Joubert, I. R. Martín, G. Boulon, S. Guy; Y. Guyot and V. D. Rodríguez.
- 179** **Title of the work:** Radiative properties of Saharan mineral dust measured using neodimium:yttrium-aluminium-garnet (532 nm) backscatter lidar.
Name of the conference: Air Pollution VI
Type of participation: 'Participatory - poster
City of event: Génova, Italy
Date of event: 28/09/1998
End date: 30/09/1998
Organising entity: Comité Air Pollution



J. P. Díaz, F. J. Exposito, I. R. Martín and R. Barrena.

- 180** **Title of the work:** Spectroscopy of rare earths ions in glasses for laser applications
Name of the conference: Spanish-Israeli Workshop on Solid State Lasers
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
City of event: Kibbutz Ein Gedi, Israel
Date of event: 14/12/1997
End date: 16/12/1997
Organising entity: Comité Workshop Hispano-Israelí
V. D. Rodríguez(*), V. Lavín, I. R. Martín, U. R. Rodríguez-Mendoza.
- 181** **Title of the work:** Fluorescence line narrowing in Eu³⁺ doped fluoroindate glasses
Name of the conference: International Conference on f Elementes (ICFE3)
Type of event: Conference
Type of participation: Participatory - poster
City of event: París, France
Date of event: 14/09/1997
End date: 18/09/1997
Organising entity: Centre National de la Recherche Scientifique
V. Lavín, V. D. Rodríguez, U. R. Rodríguez-Mendoza and I. R. Martín.
- 182** **Title of the work:** Upconversion dynamics in Yb³⁺-Ho³⁺ Doped Fluoroindate glasses.
Name of the conference: International Conference on f Elementes (ICFE3)
Type of event: Conference
Type of participation: Participatory - poster
City of event: París, France
Date of event: 14/09/1997
End date: 18/09/1997
Organising entity: Centre National de la Recherche Scientifique
I. R. Martín, V. D. Rodríguez, V. Lavín and U. R. Rodríguez-Mendoza.
- 183** **Title of the work:** Fano Antiresonances of Cr³⁺ in Alkaline Disilicate Glasses.
Name of the conference: Fourth International School on Excited States of Transitions Elements
Type of event: Conference
Type of participation: Participatory - poster
City of event: Duszynki Zdroj, Poland
Date of event: 06/09/1997
End date: 12/09/1997
Organising entity: Polish Academy of Sciences and the State Committee for Scientific Research of Poland
U. R. Rodríguez-Mendoza, V. D. Rodríguez, V. Lavín, I. R. Martín and P. Nuñez.
- 184** **Title of the work:** Ultraviolet and Blue Upconversion Emissions in Yb³⁺-Tm³⁺ Doped Fluoroindate Glasses.
Name of the conference: Fourth International School on Excited States of Transitions Elements
Type of event: Conference
Type of participation: Participatory - poster
City of event: Duszynki Zdroj, Poland
Date of event: 06/09/1997
End date: 12/09/1997
Organising entity: Polish Academy of Sciences and the State Committee for Scientific Research of Poland
I. R. Martín, V. D. Rodríguez, V. Lavín and U. R. Rodríguez-Mendoza.



- 185** **Title of the work:** Upconversion dynamics in Er³⁺ doped fluoroindate glasses
Name of the conference: Fourth International School on Excited States of Transitions Elements
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Duszniki Zdroj, Poland
Date of event: 06/09/1997
End date: 12/09/1997
Organising entity: Polish Academy of Sciences and the State Committee for Scientific Research of Poland
I. R. Martín, P. Vélez, V. D. Rodríguez, U. R. Rodríguez-Mendoza, V. Lavín.
- 186** **Title of the work:** Kinetics of transfer and back transfer in Yb³⁺-Er³⁺ codoped fluorindate glasses.
Name of the conference: ICL '96 International Conference on Luminescence
Type of event: Conference
Type of participation: 'Participatory - poster
Date of event: 18/08/1996
End date: 23/08/1996
Organising entity: Faculty of Mathematics ad Physics and Inst. of Physics
City organizing entity: Praga, Czech Republic
I. R. Martín, V. D. Rodríguez, V. Lavín and U. R. Rodríguez-Mendoza.
- 187** **Title of the work:** Site distribution in Cr³⁺ and Cr³⁺-Tm³⁺ doped alkaline silicate glasses
Name of the conference: ICL '96 International Conference on Luminescence
Type of event: Conference
Type of participation: 'Participatory - poster
Date of event: 18/08/1996
End date: 23/08/1996
Organising entity: Faculty of Mathematics ad Physics and Inst. of Physics
City organizing entity: Praga, Czech Republic
V. D. Rodríguez, U. R. Rodríguez-Mendoza, I. R. Martín, V. Lavín, P. Núñez.
- 188** **Title of the work:** Site selective study in Eu³⁺ doped fluorozirconate glasses and glass-ceramics.
Name of the conference: ICL '96 International Conference on Luminescence
Type of event: Conference
Type of participation: 'Participatory - poster
Date of event: 18/08/1996
End date: 23/08/1996
Organising entity: Faculty of Mathematics ad Physics and Inst. of Physics
City organizing entity: Praga, Czech Republic
V. Lavín, V. D. Rodríguez, I. R. Martín and U. R. Rodríguez-Mendoza.
- 189** **Title of the work:** Excited state dynamics in Yb³⁺-Ho³⁺ in fluorindate glasses.
Name of the conference: Third International School of Excited States of Transitions Elements
Type of event: Conference
Type of participation: 'Participatory - poster
Date of event: 30/08/1994
End date: 05/09/1994
Organising entity: Institute of Low Temperature of Wroclaw
City organizing entity: Kudowa-Zdroj, Poland
I. R. Martín, V. D. Rodríguez, M. Morales, U. R. Rodríguez-Mendoza and V. Lavín.



- 190** **Title of the work:** Optical Spectroscopy of Cr³⁺ and Cr³⁺-Tm³⁺ in alkaline silicate glasses.
Name of the conference: Third International School of Excited States of Transitions Elements
Type of event: Conference
Type of participation: 'Participatory - poster
Date of event: 30/08/1994
End date: 05/09/1994
Organising entity: Institute of Low Temperature of Wroclaw
City organizing entity: Kudowa-Zdroj, Poland
U. R. Rodríguez-Mendoza, V. D. Rodríguez, V. Lavín, I. R. Martín, P. Nuñez.
- 191** **Title of the work:** Optical properties of Eu³⁺ and Ho³⁺ in fluoride glasses
Name of the conference: Third International School of Excited States of Transitions Elements
Type of event: Conference
Type of participation: 'Participatory - poster
Date of event: 30/08/1994
End date: 05/09/1994
Organising entity: Institute of Low Temperature of Wroclaw
City organizing entity: Kudowa-Zdroj, Poland
V. Lavín, V. D. Rodríguez, I. R. Martín, U. R. Rodríguez-Mendoza, I. Szabó, Z. E. Rasztovits.
- 192** **Title of the work:** Energy transfer and up-conversion in Yb³⁺-Tm³⁺ codoped fluorindate glasses
Name of the conference: EURODIM 94 (Seventh Europhysical conference on defects in insulating materials)
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Lyon, France
Date of event: 05/07/1994
End date: 08/07/1994
Organising entity: University Lyon 1
V. D. Rodríguez, I. R. Martín, R. Alcalá and R. Cases.
- 193** **Title of the work:** Site Selective spectroscopy of Eu³⁺ and Eu³⁺-Ho³⁺ doped glasses
Name of the conference: EURODIM 94 (Seventh Europhysical conference on defects in insulating materials)
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Lyon, France
Date of event: 05/07/1994
End date: 08/07/1994
Organising entity: University Lyon 1
V. D. Rodríguez, V. Lavín, U. R. Rodríguez-Mendoza, I. R. Martín, P. Núñez.
- 194** **Title of the work:** Luminescence of Cr³⁺ and Cr³⁺-Tm³⁺ in lithium silicate glasses
Name of the conference: ICL'93 International Conference on Luminescence
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Storrs, United States of America
Date of event: 09/08/1993
End date: 13/08/1993
Organising entity: University of Connecticut
U. R. Rodríguez-Mendoza, V. D. Rodríguez, V. Lavín, I. R. Martín, P. Núñez.



- 195** **Title of the work:** Optical spectroscopy of Eu³⁺ and Eu³⁺-Ho³⁺ in borate glasses
Name of the conference: ICL'93 International Conference on Luminescence
Type of event: Conference
Type of participation: 'Participatory - poster
City of event: Storrs, United States of America
Date of event: 09/08/1993
End date: 13/08/1993
Organising entity: University of Connecticut
V. Lavín, V. D. Rodríguez, U. R. Rodríguez-Mendoza, I. R. Martín, P. Núñez.
- 196** **Title of the work:** Cross relaxation of Tb³⁺ ions in ZnF₂-CdF₂ based glasses. LUGAR: Madrid
Name of the conference: XVI International Congress on Glass
Type of participation: 'Participatory - poster
Date of event: 10/1992
Organising entity: SOCIEDAD ESPAÑOLA DE CERAMICA Y VIDRIO
I. R. Martín, V. D. Rodríguez, R. Alcalá and R. Cases. En: Boletín de la Sociedad Española de Cerámica y Vidrio. 31-C - 2,
- 197** **Title of the work:** Cross relaxation for Tm³⁺ ions in indium based glasses. LUGAR: Perros-Guirec. Brittany. France.
Name of the conference: 8 Th International Symposium on Halide Glasses.
Type of participation: 'Participatory - poster
City of event: Perros Guirec, France
Date of event: 22/09/1992
End date: 24/09/1992
Organising entity: ISHG Committee
I. R. Martín, V. D. Rodríguez, R. Alcalá and R. Cases.
- 198** **Title of the work:** Espectroscopía óptica de iones magnéticos en sólidos.
Name of the conference: V Symposium del G.E.C.
Type of event: Conference
Type of participation: Participatory - invited/keynote talk
City of event: Puerto de la Cruz, Spain
Date of event: 24/05/1992
End date: 30/05/1992
Organising entity: Grupo Especializado en Cristalografía
V. D. Rodríguez(*), I. R. Martín, V. Lavín y U. R. Rodríguez-Mendoza.
- 199** **Title of the work:** Optical properties and Energy Transfer among 4f ions on Fluorzincate Glasses.
Name of the conference: Third International Workshop on Non-Crystalline Solids.
Type of participation: 'Participatory - poster
City of event: Huelva,
Date of event: 05/11/1991
End date: 08/11/1991
Organising entity: Dpto. Física de la Materia condensada de la Universidad de Sevilla y CSIC
V. D. Rodríguez, I. R. Martín, R. Alcalá and R. Cases.
- 200** **Title of the work:** Espectroscopía de iones Sm³⁺ y Tb³⁺ en vidrios fluoruros. Dependencia con la concentración. LUGAR: Valladolid
Name of the conference: XXIII Reunión Bial de la Real Sociedad Española de Física



Type of participation: 'Participatory - poster

City of event: Valladolid,

Date of event: 23/09/1991

End date: 27/09/1991

Organising entity: Real Sociedad Española. GEFES de Física. GEFES. CARÁCTER: Nacional
I. R. Martín; V.D. Rodríguez; R. Alcalá.

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 **Geographical area:** Non EU International
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 **Geographical area:** European Union
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 **Geographical area:** European Union
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 **Geographical area:** European Union
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 **Geographical area:** European Union
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
City of event: Arona (S/C de Tenerife), Spain
Type of entity: State agency



Convening entity: Consejo Superior de Investigaciones Científicas

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

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

Start date: 20/01/2020

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

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

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

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

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 coordinator

Entity: Universidad de La Laguna

Type of entity: University



Start date: 01/01/2004

Duration: 4 years - 5 months

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

Start date: 20/06/2003

Type of entity: University

Duration: 2 years - 7 months - 28 days

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
Start-End date: 04/05/2000 - 03/06/2000
Goals of the stay: Post-doctoral
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
Start-End date: 14/06/1999 - 14/08/1999
Goals of the stay: Post-doctoral
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
Start-End date: 01/05/1998 - 31/07/1998
Goals of the stay: Post-doctoral
Provable tasks: Spectroscopic properties of laser materials.
- 4 Entity:** Dpto, de Física de la Materia Condensada. Universidad Zaragoza
City of entity: Madrid, Spain
Start-End date: 15/10/1991 - 15/11/1991
Goals of the stay: Doctorate
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



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CURRÍCULUM VITAE NORMALIZADO

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- 2** **Name of the grant:** GRAN FOR A TWO MONTHS STAY (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 MONTHS 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

Actividad Investigadora

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 3.847).
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, ACS Applied Nanomaterials, Advanced Optical Materials, Advanced Materials, Biosensors and Bioelectronics, Ceramics International, Chemical Engineering Journal, Chemical Physics Letters, Chemosensors, Inorganic



Chemistry Communications, 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 Materials Chemistry C, 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, Light: Science and Applications, Luminescence, Materials Chemistry and Physics A, Materials Letters, Materials Research Bulletin, Materials Science and Engineering B, Material Science and Engineering C, Micromachines, Modern Physics Letters B, Molecules, Nanomaterials, Nature Communications, Optical Materials, Optics Express, Optics and Laser Technology, Optics Letters, Photonics, Physica B-Condensed Matter, Physics Letters, Polymers, Scientific-Reports-Nature, Sensors, Sensors & Actuators: B Chemical, Spectrochim. Acta Part A: Molec. and Bio. Spect. , Solid State Communications, Solid State Sciences, Talanta, Thin Solid Films and Vibrational Spectroscopy.