



CURRÍCULUM VÍTAE NORMALIZADO



César Luis FOLCIA BASA

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Summary of CV

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

I finished my PhD thesis in 1989. It was about ferroelectric materials with incommensurate phases. In particular I studied, by means of dielectric susceptibility and x-ray diffraction measurements, the peculiar dependence that certain magnitudes present in relation to the thermal history of the material (memory effects). After completing the thesis, my research work was oriented towards the area of optical properties of materials, including crystalline solids and liquid crystals. In relation to the first ones, it is worth mentioning my contribution to the implementation and optimization of a high-resolution universal polarimeter (HAUP method). However, most of my research work focused on the field of ferroelectric liquid crystals. Here, in reference to the optical properties, I performed the assembly of an experimental line for the study of second harmonic generation (SHG) in mesogenic materials. The SHG technique is used to determine the efficiency of the second harmonic light conversion and its relationship with the molecular structure. This technique, complemented with the observation of textures by optical polarization microscopy and analysis of electro-optical switching, is routinely used in its different variants (second-harmonic interferometry, second-harmonic response to applied electric fields, centrosymmetry test, etc.), and is a fundamental tool for the characterization of new materials. Since 2005, given the complexity that many of the new liquid crystal materials presented (undulated smectic phases, columnar phases, pseudo-crystallinity, etc.), it was essential to resort to X-ray diffraction techniques to obtain structural information on the basis of which different observed effects could be explained. Nowadays I use this technique in a routine way, not only with the equipment available in our laboratory but also using large facilities (synchrotron radiation), where we can highlight the experiments of resonant x-ray diffraction performed on liquid crystal columnar structures. An important contribution in this field is the analysis of structures using electronic density maps (Fourier maps). These maps are obtained from the diffracted intensities. They can represent selected sections of the bulk charge density as well as its projection along a given direction. A reliable image of the structure is finally obtained by positioning the molecules in the unit cell according to the information given by the map. Since we published the method in 2006, it has been used by different groups for the structural study of liquid crystalline phases.

Since 2014, I am working in the study of liquid crystal lasers. These are photonic materials constituted by chiral nematic (cholesteric) liquid crystals. The helical structure is here the resonator in which the light generated by the desexcitation of dye molecules is amplified. In the last five years we published nine articles concerning different aspects of liquid crystal lasers and the behaviour of light in photonic structures, and is, together with the characterization of new materials, a field in which I will work on a routine basis. I also plan to extend the study to lasers based on liquid crystal emulsions and microlasers formed by drops of mesogen in suspension.

I have supervised four PhD theses. One of them was awarded with the Glenn Brown International Prize for the best thesis in liquid crystal physics granted biennially by the International Liquid Crystal Society.



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: 6

Last period: 2015 - 2020

Number of theses supervised in the last 10 years: 2

Total publications: 90

Publications in Q1: 59

Sum of times cited: 1584 - Without self citations: 1339

Average number of citations/year during the last 5 years (not including the current year): 90.4

h-index: 22



César Luis FOLCIA BASA

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 ResearcherID: **G-4615-2015**
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Current professional situation

Employing entity: Universidad del País Vasco **Type of entity:** University

Department: Física de la Materia Condensada, Facultad de Ciencia y Tecnología

Professional category: Catedrático de Universidad

Start date: 28/04/2010

Type of contract: Civil servant

Dedication regime: Full time

Primary (UNESCO code): 220910 - Lasers; 220913 - Non-linear optics; 221093 - Liquid Crystals; 221105 - Crystal structure; 221124 - Optical properties

Identify key words: Nonlinear optics; Lasers; Liquid crystals; Diffraction

Previous positions and activities

	Employing entity	Professional category	Start date
1	Universidad del País Vasco	Profesor Titular de Universidad	14/01/1994
2	Universidad del País Vasco	Profesor Titular Interino	01/03/1992
3	Universidad del País Vasco	Profesor Titular Interino	01/10/1991
4	Universidad del País Vasco	Profesor Asociado (doctor)	01/04/1989
5	Universidad del País Vasco	Profesor Asociado (no doctor)	01/01/1989
6	Instituto de Cooperación Iberoamericana	Becario	01/10/1984
7	Universidad de Buenos Aires	Auxiliar de Docencia	19/05/1983

1 Employing entity: Universidad del País Vasco **Type of entity:** University

Department: Física de la Materia Condensada, Facultad de Ciencia y Tecnología

Professional category: Profesor Titular de Universidad **Educational Management (Yes/No):** Yes

Start-End date: 14/01/1994 - 27/04/2010

Duration: 16 years - 3 months - 14 days

Type of contract: Civil servant

Dedication regime: Full time

Field of management activity: University



- 2 Employing entity:** Universidad del País Vasco **Type of entity:** University
Department: Física de la Materia Condensada, Facultad de Ciencia y Tecnología
Professional category: Profesor Titular Interino **Educational Management (Yes/No):** Yes
Start-End date: 01/03/1992 - 13/01/1994 **Duration:** 1 year - 10 months - 13 days

Type of contract: Temporary
Dedication regime: Full time
Field of management activity: University
- 3 Employing entity:** Universidad del País Vasco **Type of entity:** University
Department: Física Aplicada I, Escuela Técnica Superior de Ingenieros Industriales y de Telecomunicación
Professional category: Profesor Titular Interino **Educational Management (Yes/No):** Yes
Start-End date: 01/10/1991 - 28/02/1992 **Duration:** 4 months - 28 days

Type of contract: Temporary
Dedication regime: Full time
Field of management activity: University
- 4 Employing entity:** Universidad del País Vasco **Type of entity:** University
Department: Física Aplicada I, Escuela Técnica Superior de Ingenieros Industriales y de Telecomunicación
Professional category: Profesor Asociado (doctor) **Educational Management (Yes/No):** Yes
Start-End date: 01/04/1989 - 30/09/1991 **Duration:** 2 years - 6 months

Type of contract: Temporary employment contract
Dedication regime: Full time
Field of management activity: University
- 5 Employing entity:** Universidad del País Vasco
Department: Física Aplicada I, Escuela Técnica Superior de Ingenieros Industriales y de Telecomunicación
Professional category: Profesor Asociado (no doctor) **Educational Management (Yes/No):** Yes
Start-End date: 01/01/1989 - 31/03/1989 **Duration:** 3 months

Type of contract: Temporary employment contract
Dedication regime: Full time
Field of management activity: University
- 6 Employing entity:** Instituto de Cooperación Iberoamericana **Type of entity:** State agency
Professional category: Becario **Educational Management (Yes/No):** No
Start-End date: 01/10/1984 - 30/09/1986 **Duration:** 2 years

Type of contract: Grant-assisted student (pre or post-doctoral, others)
Dedication regime: Full time
Field of management activity: University
- 7 Employing entity:** Universidad de Buenos Aires **Type of entity:** University
Department: Física, Facultad de Ciencias Exactas y Naturales
Professional category: Auxiliar de Docencia **Educational Management (Yes/No):** Yes
Start-End date: 19/05/1983 - 30/09/1984



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Type of contract: Temporary employment contract

Dedication regime: Part time

Field of management activity: University





Education

University education

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

Name of qualification: Licenciado en Ciencias Físicas

City degree awarding entity: Buenos Aires, Argentina

Degree awarding entity: Facultad de Ciencias **Type of entity:** University
Exactas y Naturales, Universidad de Buenos Aires

Date of qualification: 22/05/1984

Standardised degree: Yes

Doctorates

Doctorate programme: Doctorado en Física

Degree awarding entity: Universidad del País Vasco **Type of entity:** University

City degree awarding entity: Spain

Date of degree: 02/03/1989

Thesis title: Efectos cinéticos en materiales ferroeléctricos con fases incommensurables

Thesis director: Juan Manuel Pérez Mato

Thesis co-director: Manuel José Tello León

Obtained qualification: Apto Cum-Laude

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
English	A1	A1	A1	A1	A1

Teaching experience

Experience supervising doctoral thesis and/or final year projects

1 Project title: Propagación de la luz en medios anisótropos no homogéneos

Type of project: End of course project

Entity: Universidad del País Vasco

Type of entity: University

City of entity: Spain

Student: Mikel Gómez Ruiz

Obtained qualification: 8

Date of reading: 12/07/2019



2 Project title: El microscopio de efecto túnel. Estudio de la superficie del grafito.

Type of project: End of course project

Entity: Universidad del País Vasco

Type of entity: University

City of entity: Spain

Student: Ernesto Mamedaliev Guseinova

Obtained qualification: 9

Date of reading: 12/09/2018

3 Project title: Optical functionalities of liquid crystals: laser devices and nonlinear optics

Type of project: Doctoral thesis

Co-director of thesis: Josu Ortega Aperribay

Entity: Universidad del País Vasco

Type of entity: University

City of entity: Spain

Student: Gerardo Sanz Enguita

Obtained qualification: Sobresaliente Cum-Laude

Date of reading: 02/12/2016

European doctorate: Yes

4 Project title: Optimización de pseudo-orbitales atómicos confinados en dímeros

Type of project: End of course project

Entity: Universidad del País Vasco

Type of entity: University

City of entity: Spain

Student: Deyviss Jesús Oroya Villalta

Obtained qualification: 8

Date of reading: 14/09/2016

5 Project title: Cristales líquidos no convencionales con funcionalidades diversas: óptica no lineal, fases columnares y ferroelectricidad

Type of project: Doctoral thesis

Co-director of thesis: Josu Ortega Aperribay

Entity: Universidad del País Vasco

Type of entity: University

City of entity: Spain

Student: Sofía Rodríguez Conde

Obtained qualification: Sobresaliente Cum-Laude

Date of reading: 27/03/2015

6 Project title: Determinación estructural de cristales líquidos mediante difracción resonante de rayos x

Type of project: End of course project

Entity: Universidad del País Vasco

Type of entity: University

City of entity: Spain

Student: Oier Arcelus Elcorobarrutia

Obtained qualification: 8.1

Date of reading: 10/07/2014

7 Project title: Second harmonic generation in a ferroelectric liquid crystal

Type of project: Trabajo de Fin de Master

Co-director of thesis: Josu Ortega Aperribay

Entity: Universidad del País Vasco

Type of entity: University

City of entity: Spain

Student: Gerardo Sanz Enguita

Obtained qualification: 9



Date of reading: 25/09/2012

8 Project title: Determinación estructural de algunas fases de cristales líquidos esmécticos mediante difracción resonante de rayos x

Type of project: End of course project

Entity: Universidad del País Vasco

Type of entity: University

City of entity: Spain

Student: Jasone Garay García

Obtained qualification: 9

Date of reading: 15/07/2011

9 Project title: Nonlinear optical and structural properties of new bent-core liquid cristal materials

Type of project: Doctoral thesis

Co-director of thesis: Josu Ortega Aperribay

Entity: Universidad del País Vasco

Type of entity: University

City of entity: Spain

Student: Ibon Alonso Villanueva

Obtained qualification: Sobresaliente Cum-Laude

Date of reading: 24/11/2008

10 Project title: Propiedades ópticas no lineales y estructurales en cristales líquidos tipo banana con unidades azobenceno

Type of project: DEA

Co-director of thesis: Josu Ortega Aperribay

Entity: Universidad del País Vasco

Type of entity: University

City of entity: Spain

Student: Ibon Alonso Villanueva

Date of reading: 20/11/2006

11 Project title: Cristales líquidos tipo banana: propiedades ópticas no lineales y estructurales

Type of project: Doctoral thesis

Co-director of thesis: Josu Ortega Aperribay

Entity: Universidad del País Vasco

Type of entity: University

City of entity: Spain

Student: Jon Ander Gallastegui Mañaricua

Obtained qualification: Sobresaliente Cum-Laude

Date of reading: 14/12/2005

12 Project title: Generación de segundo armónico en cristales líquidos tipo banana

Type of project: Minor thesis

Co-director of thesis: Josu Ortega Aperribay

Entity: Universidad del País Vasco

Type of entity: University

City of entity: Spain

Student: Jon Ander Gallastegui Mañaricua

Date of reading: 18/06/2002



Scientific and technological experience

Scientific or technological activities

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

1 Name of the project: Cristales líquidos, láseres y ferroelectricidad

Entity where project took place: Universidad del País Vasco - GIU18/146

Name principal investigator (PI, Co-PI....): Folcia Basa, César Luis

Nº of researchers: 6

Start-End date: 21/12/2018 - 20/12/2021

Total amount: 28.654 €

2 Name of the project: Convocatoria Extraordinaria UPV/EHU para Grupos de Investigación del Gobienro Vasco

Entity where project took place: Universidad del País Vasco - UPV/EHU PPG17/29 **Type of entity:** University

Name principal investigator (PI, Co-PI....): Folcia Basa, César Luis

Nº of researchers: 6

Start-End date: 01/01/2017 - 31/12/2018

Total amount: 17.400 €

3 Name of the project: Materiales funcionales autoorganizados: estudio estructural, y fenomenología óptica y dieléctrica

Entity where project took place: Universidad del País Vasco - MINECO MAT2012-38538-C03-02 **Type of entity:** University

Name principal investigator (PI, Co-PI....): Folcia Basa, César Luis

Nº of researchers: 10

Start-End date: 01/02/2013 - 31/12/2015

Total amount: 128.700 €

4 Name of the project: Cristales líquidos

Entity where project took place: Universidad del País Vasco - Gobierno Vasco GI/IT-449-10 **Type of entity:** University

Name principal investigator (PI, Co-PI....): de la Fuente Lavín, M^a Rosario

Nº of researchers: 6

Start-End date: 01/01/2010 - 31/12/2015

Total amount: 388.000 €

5 Name of the project: Materiales funcionales supramoleculares: propiedades estructurales, ópticas y dieléctricas

Entity where project took place: Universidad del País Vasco - MEC MAT2009-14636-C03-03 **Type of entity:** University

Name principal investigator (PI, Co-PI....): Folcia Basa, César Luis

Nº of researchers: 8

Start-End date: 01/01/2010 - 30/06/2013

Total amount: 157.300 €



6 Name of the project: Propiedades físicas de cristales líquidos y polímeros piezoeléctricos

Entity where project took place: Universidad del País Vasco - GRUPOS DEL SISTEMA
UNIVERSITARIO VASCO 2007 IT-484-07

Type of entity: University

Name principal investigator (PI, Co-PI....): de la Fuente Lavín, M^a Rosario

Nº of researchers: 7

Start-End date: 01/01/2007 - 31/12/2009

Total amount: 85.834,11 €

7 Name of the project: Materiales ópticos y optoelectrónicos basados en organizaciones mesomorfas:

Caracterización estructural y estudio de sus propiedades fenomenológicas

Entity where project took place: Universidad del País Vasco - MEC MAT2006-13571-C02-02

Type of entity: University

Name principal investigator (PI, Co-PI....): Folcia Basa, César Luis

Nº of researchers: 8

Start-End date: 01/10/2006 - 31/12/2009

Total amount: 170.610 €

8 Name of the project: Materiales moleculares cristal líquido para aplicaciones en electrónica molecular

Entity where project took place: Universidad del País Vasco - MEC MAT2003-07806-C02-02

Type of entity: University

Name principal investigator (PI, Co-PI....): Folcia Basa, César Luis

Nº of researchers: 6

Start-End date: 01/12/2003 - 30/06/2007

Total amount: 171.000 €

9 Name of the project: Propiedades físicas de cristales líquidos para aplicaciones ópticas y optoelectrónicas

Entity where project took place: Universidad del País Vasco - GRUPOS DEL SISTEMA
UNIVERSITARIO VASCO 2001 GIC01/42

Type of entity: University

Name principal investigator (PI, Co-PI....): Pérez Jubindo, Miguel Ángel

Nº of researchers: 9

Start-End date: 04/10/2001 - 31/12/2006

Total amount: 338.501,23 €

10 Name of the project: Supramolecular liquid crystal dendrimers

Entity where project took place: Universidad del País Vasco, Universidad de Zaragoza - EC Human Capital & Mobility Network RTN1-1999-0311

Type of entity: University

Name principal investigator (PI, Co-PI....): Serrano Ostáriz, José Luis

Start-End date: 01/07/2000 - 30/06/2004

11 Name of the project: Nuevos materiales cristales líquidos para aplicaciones electroópticas y optoelectrónicas

Entity where project took place: Universidad del País Vasco - MEC MAT2000-1293-C02-02

Type of entity: University

Name principal investigator (PI, Co-PI....): Folcia Basa, César Luis

Nº of researchers: 6

Start-End date: 28/12/2000 - 27/12/2003

Total amount: 128.616,6 €



12 Name of the project: Diseño, síntesis y caracterización de materiales basados en organizaciones supramoleculares para aplicaciones ópticas: fluorescencia, ferroeléctricas y óptica no lineal

Entity where project took place: Universidad del País Vasco - MEC MAT97-0986-C02-02 **Type of entity:** University

Name principal investigator (PI, Co-PI....): de la Fuente Lavín, M^a Rosario

Nº of researchers: 5

Start-End date: 01/10/1997 - 30/09/2000

13 Name of the project: Propiedades ópticas no lineales en mesógenos no convencionales

Entity where project took place: Universidad del País Vasco - UPV/EHU UPV 063.310-EB158/97 **Type of entity:** University

Name principal investigator (PI, Co-PI....): Folcia Basa, César Luis

Nº of researchers: 4

Start-End date: 01/12/1997 - 30/11/1999

14 Name of the project: Molecular design of functional liquid crystals

Entity where project took place: Universidad del País Vasco, Universidad de Zaragoza - EC Human Capital & Mobility Network FMRX-CT97-0121 **Type of entity:** University

Start-End date: 01/11/1997 - 31/10/1999

15 Name of the project: Generación de segundo armónico en cristales líquidos ferroeléctricos

Entity where project took place: Universidad del País Vasco - UPV/EHU UPV 063.310-EB228/95 **Type of entity:** University

Name principal investigator (PI, Co-PI....): Folcia Basa, César Luis

Nº of researchers: 3

Start-End date: 16/10/1995 - 15/10/1997

16 Name of the project: Diseño, síntesis y estudio de materiales orgánicos avanzados para aplicaciones ópticas (electro y magnetoópticas) no lineales

Entity where project took place: Universidad del País Vasco - MEC MAT94-0717-C02-02

Name principal investigator (PI, Co-PI....): de la Fuente Lavín, M^a Rosario

Nº of researchers: 4

Start-End date: 12/05/1994 - 12/05/1997

17 Name of the project: Molecular organization in liquid crystals resulting from particular intermolecular interactions

Entity where project took place: Universidad del País Vasco, Universidad de Zaragoza - EC Human Capital & Mobility Network ERBCHRX-CT930161

Name principal investigator (PI, Co-PI....): Serrano Ostáriz, José Luis

Start-End date: 01/10/1993 - 30/09/1996

18 Name of the project: Cristales líquidos ferroeléctricos. Nuevos materiales para óptica no lineal

Entity where project took place: Universidad del País Vasco - MEC MAT91-0962-C02-02 **Type of entity:** University

Name principal investigator (PI, Co-PI....): Etxebarria Ecenarro, Jesús

Nº of researchers: 7

Start-End date: 05/08/1991 - 05/08/1994



- 19** **Name of the project:** Propiedades ópticas y acción láser de los iones Nd y Er en la matriz BIGaZYT
Entity where project took place: Universidad del País Vasco - UPV/EHU UPV 057.345-E126/91
Type of entity: University
Name principal investigator (PI, Co-PI....): Balda de la Cruz, M^a Rolindes
Nº of researchers: 5
Start-End date: 01/01/1992 - 31/12/1992
- 20** **Name of the project:** Propiedades ópticas de iones 3D y tierras raras en matrices vítreas de vidrios fluoruros. Aplicaciones a láseres sintonizables de estado sólido
Entity where project took place: Universidad del País Vasco - MEC MAT89-0188
Type of entity: University
Name principal investigator (PI, Co-PI....): Fernández Rodríguez, Joaquín
Nº of researchers: 9
Start-End date: 17/11/1989 - 16/11/1992
- 21** **Name of the project:** Propiedades ópticas de iones luminiscentes en la nueva matriz BIGaZYT
Entity where project took place: Universidad del País Vasco - : UPV/EHU UPV 057.345-E175/90
Type of entity: University
Name principal investigator (PI, Co-PI....): Balda de la Cruz, M^a Rolindes
Nº of researchers: 5
Start-End date: 01/01/1991 - 31/12/1991
- 22** **Name of the project:** Propiedades ópticas del Cr(III) en matrices vítreas basadas en vidrios pesados
Entity where project took place: Universidad del País Vasco - UPV/EHU UPV 057.345-0165/89
Type of entity: University
Name principal investigator (PI, Co-PI....): Balda de la Cruz, M^a Rolindes
Nº of researchers: 5
Start-End date: 15/03/1990 - 31/12/1990
- 23** **Name of the project:** Estudio estructural de materiales incommensurables y cuasicristales
Entity where project took place: Universidad del País Vasco - MEC PB85-0466
Type of entity: University
Name principal investigator (PI, Co-PI....): Pérez Mato Juan Manuel
Nº of researchers: 6
Start-End date: 01/01/1988 - 31/12/1988
- 24** **Name of the project:** Cristales incommensurables: Caracterización física, estructural y efecto memoria
Entity where project took place: Universidad del País Vasco - Gobierno Vasco GV 063.310-15/87
Type of entity: University
Name principal investigator (PI, Co-PI....): Manuel José
Nº of researchers: 8
Start-End date: 17/09/1986 - 17/09/1988



Scientific and technological activities

Scientific production

Publications, scientific and technical documents

- 1** J. Ortega; C. L. Folcia; J. Etxebarria. Liquid-crystal-based resonant cavities as a strategy to design low-threshold electrically-tunable lasers. *Liquid Crystals*. 09/09/2021. Available on-line at: <<https://doi.org/10.1080/02678292.2021.1974584>>. **DOI:** 10.1080/02678292.2020.1783587
Type of production: Scientific paper **Format:** Journal
- 2** C. L. Folcia; J. Ortega; J. Etxebarria. Spot profile and beam divergence in cholesteric liquid crystal lasers. *Liquid Crystals*. 48 - 3, pp. 336 - 344. 2021. Available on-line at: <<https://doi.org/10.1080/02678292.2020.1783587>>. **DOI:** 10.1080/02678292.2020.1783587
Type of production: Scientific paper **Format:** Journal
- 3** C. L. Folcia; J. Ortega; J. Etxebarria. Anomalous light scattering in photonic cholesteric liquid crystals. *Liquid Crystals*. 47 - 6, pp. 958 - 965. 2020. Available on-line at: <<https://doi.org/10.1080/02678292.2019.1693645>>. **DOI:** 10.1080/02678292.2019.1693645
Type of production: Scientific paper **Format:** Journal
- 4** E. de Domingo; C. L. Folcia; J. Ortega; J. Etxebarria; R. Termine; A. Golemme; S. Coco; P. Espinet. Striking Increase in Hole Mobility upon Metal Coordination to Triphenylene Schiff Base Semiconducting Multicolumnar Mesophases. *Inorganic Chemistry*. 59, pp. 10482 - 10491. 2020. Available on-line at: <<https://doi.org/10.1021/acs.inorgchem.0c00794>>. **DOI:** 10.1021/acs.inorgchem.0c00794
Type of production: Scientific paper **Format:** Journal
- 5** J. Ortega; C. L. Folcia; J. Etxebarria. Laser emission at the second-order photonic band gap in an electric-field-distorted cholesteric liquid crystal. *Liquid Crystals*. 46 - 15, pp. 2159 - 2166. 2019. Available on-line at: <<https://doi.org/10.1080/02678292.2019.1613694>>. **DOI:** 10.1080/02678292.2019.1613694
Type of production: Scientific paper **Format:** Journal
- 6** C. L. Folcia; J. Ortega; J. Etxebarria. Cone-Shaped Emissions in Cholesteric Liquid Crystal Lasers: The Role of Anomalous Scattering in Photonic Structures. *ACS Photonics*. 5, pp. 4545 - 4553. 2018. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:000438000200002>. **DOI:** 10.1021/acsphotonics.8b01011
Type of production: Scientific paper **Format:** Journal
- 7** J. Etxebarria; J. Ortega; C. L. Folcia. Enhancement of the optical absorption in cholesteric liquid crystals due to photonic effects: an experimental study. *Liquid Crystals*. 45, pp. 122 - 128. 2018. Available on-line at: <http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=WOS_CPL&KeyUT=WOS:000438000200001>. **DOI:** 10.1080/02678292.2017.1302010
Type of production: Scientific paper **Format:** Journal



- 8** B. Feringán; C. L. Folcia; R. Termine; A. Golemme; J. M. Granadino-Roldán; A. Navarro; J. L. Serrano; R. Giménez; T. Sierra. Inspecting the Electronic Architecture and Semiconducting Properties of a Rosette-Like Supramolecular Columnar Liquid Crystal. *Chemistry - A European Journal*. 24, pp. 17459 - 17463. 2018. Available on-line at: <<http://gateway.webofknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=ORCID&SrcApp=OrcidOrg&DestLinkType=FullRecord&DestApp=MEDLINE&KeyUT=MEDLINE:0000-0002-1000-0008>>
DOI: 10.1002/chem.201804748
Type of production: Scientific paper **Format:** Journal
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Type of production: Scientific paper **Format:** Journal



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DOI: 10.1039/c2jm33612j
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DOI: 10.1080/02678290210130847**Type of production:** Scientific paper**Format:** Journal

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DOI: 10.1080/02678290260236403**Type of production:** Scientific paper**Format:** Journal

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- Type of production:** Scientific paper **Format:** Journal
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Works submitted to national or international conferences

- 1** **Title of the work:** Evidence of optical absorption enhancement in cholesteric liquid crystals at both edges of the photonic band gap
Name of the conference: 14th European Conference on Liquid Crystals
City of event: Moscú, Russia
Date of event: 25/06/2017
End date: 30/06/2017
J. Etxebarria; J. Ortega; C. L. Folcia.
- 2** **Title of the work:** Optimizing the performance of cholesteric liquid crystal lasers: the dependence on the sample thickness
Name of the conference: 14th European Conference on Liquid Crystals
City of event: Moscú, Russia
Date of event: 25/06/2017
End date: 30/06/2017
J. Ortega; J. Etxebarria; C. L. Folcia; G. Sanz-Enguita; I. Aramburu.
- 3** **Title of the work:** Bent-core structures as versatile building blocks for polar self-assembling systems
Name of the conference: 15th International Conference on Ferroelectric Liquid Crystals
City of event: Praga, Czech Republic
Date of event: 28/06/2015
End date: 03/07/2015



N. Gimeno; M. Cano; A. M. Bermejo-Sanz; J. Vergara; J. L. Serrano; M. C. López; A. Sánchez-Ferrer; D. O. López; C. L. Folcia; M. R. de la Fuente; M. B. Ros.

4 Title of the work: Ferroelectric switching in a chromonic nematic liquid crystal based on a bowl-shaped boron subphthalocyanine (SubPc) derivative

Name of the conference: 15th International Conference on Ferroelectric Liquid Crystals

City of event: Praga, Czech Republic

Date of event: 28/06/2015

End date: 03/07/2015

J. Guilleme; E. Cavero; T. Sierra; J. Ortega; C. L. Folcia; J. Etxebarria; D. González-Rodríguez; T. Torres.

5 Title of the work: Origin of the degradation of cholesteric liquid cristal lasers: Thermally-induced light scattering effects

Name of the conference: 15th International Conference on Ferroelectric Liquid Crystals

City of event: Praga, Czech Republic

Date of event: 28/06/2015

End date: 03/07/2015

J. Etxebarria; J. Ortega; C. L. Folcia; G. Sanz-Enguita; I. Aramburu.

6 Title of the work: Determination of nonlinear optical coefficients from micropowders in the presence of scattering: A revisión of the Kurtz-Perry method

Name of the conference: OSA's 98th Annual Meeting and APS/DLS Annual Meeting

City of event: Tucson, United States of America

Date of event: 19/10/2014

End date: 23/10/2014

I. Aramburu; J. Ortega; C. L. Folcia; J. Etxebarria.

7 Title of the work: Permanent polar prder in a subphthalocyanine columnar liquid crystal

Name of the conference: 25th International Liquid Crystal Conference

City of event: Dublín, Ireland

Date of event: 29/06/2014

End date: 04/07/2014

J. Guilleme; D. González-Rodríguez; T. Sierra; J. Ortega; C. L. Folcia; J. Etxebarria.

8 Title of the work: Spontaneous and field-induced phases of a thiophene derived bent-core liquid crystal with bulky groups at the end chains

Name of the conference: 25th International Liquid Crystal Conference

City of event: Dublín, Ireland

Date of event: 29/06/2014

End date: 04/07/2014

C. L. Folcia; J. Ortega; J. Etxebarria; S. Rodríguez-Conde; G. Sanz-Enguita; K. Geese; C. Tschierske; P. Barois; R. Pindak; C. C. Huang.

9 Title of the work: Second and third harmonic generation in an azo-bridged ferroelectric trimesogen designed for nonlinar optical applications

Name of the conference: Optics of Liquid Crystals 2013

City of event: Honolulu, Hawaii, United States of America

Date of event: 29/09/2013

End date: 04/10/2013

G. Sanz-Enguita; S. Rodríguez-Conde; C. L. Folcia; Y. Zhang; J. Ortega; U. Baumeister; C. Walker; J. Etxebarria; M. J. O'Callaghan; K. More.



- 10 Title of the work:** Ferroelectricity and nanosegregation in Janus-type dendromesogens studied by SHG interferometry and X-ray diffraction
Name of the conference: 12th European Conference on Liquid Crystals
City of event: Rodas, Greece
Date of event: 22/09/2013
End date: 27/09/2013
S. Rodríguez-Conde; G. Sanz-Enguita; N. Gimeno; J. Vergara; M. Cano; J. L. Serrano; M.B. Ros; J. Ortega; C. L. Folcia; J. Etxebarria.
- 11 Title of the work:** Resonant x-ray scattering studies of smectic and columnar bent-core liquid crystal phases
Name of the conference: APS March Meeting 2012
City of event: Boston, Massachusetts, United States of America
Date of event: 27/02/2012
End date: 02/03/2012
R. Pindak; P. Barois; V. Poinsinet; C. L. Folcia; J. Ortega; LiDong Pan; S. Wang; A. Wang; C. C. Huang.
- 12 Title of the work:** Polarization Periodicity of columnar bent-core liquid crystals. A resonant x-ray diffraction study
Name of the conference: 13th International Conference on Ferroelectric Liquid Crystals
City of event: Niagara Falls, Canada
Date of event: 29/08/2011
End date: 02/09/2011
C. L. Folcia.
- 13 Title of the work:** X-ray study of electric-field-induced phase transitions in bent-core compounds
Name of the conference: 13th International Conference on Ferroelectric Liquid Crystals
City of event: Niagara Falls, United States of America
Date of event: 29/08/2011
End date: 02/09/2011
J. Ortega; C. L. Folcia; J. Etxebarria; J. Martínez-Perdiguer; J. A. Gallastegui; P. Ferrer; N. Gimeno; M. B. Ros.
- 14 Title of the work:** SHG in laterally azo-bridged H-shaped FLC's
Name of the conference: 23rd International Liquid Cristal Conference
City of event: Cracovia, Poland
Date of event: 11/07/2010
End date: 16/07/2010
J. Martínez-Perdiguer; Y. Zhang; C. Walter; J. Etxebarria; C. L. Folcia; J. Ortega; M. J. O'Callaghan; U. Baumeister.
- 15 Title of the work:** Structural Study of the columnar B1 to SmCP transition in bent-core liquid crystals
Name of the conference: 23rd International Liquid Cristal Conference
City of event: Cracovia, Poland
Date of event: 11/07/2010
End date: 16/07/2010
J. Martínez-Perdiguer; J. Etxebarria; C. L. Folcia; J. Ortega; N. Gimeno; M. B. Ros.
- 16 Title of the work:** Influence of polar groups on the self-organization of hydrogen-bonded bent-core liquid crystals
Name of the conference: 12th International Conference on Ferroelectric Liquid Crystals
City of event: Zaragoza, Spain



Date of event: 31/08/2009

End date: 04/09/2009

M. J. Clemente; N. Gimeno; M. B. Ros; J. L. Serrano; W. Weissflog; C. L. Folcia; J. Ortega.

17 Title of the work: New local structure of the B4 phase

Name of the conference: 12th International Conference on Ferroelectric Liquid Crystals

City of event: Zaragoza, Spain

Date of event: 31/08/2009

End date: 04/09/2009

J. Martínez-Perdigero; I. Alonso; C. L. Folcia; J. Etxebarria; J. Ortega; M. B. Ros.

18 Title of the work: Second harmonic generation in liquid crystals: State of the art

Name of the conference: 12th International Conference on Ferroelectric Liquid Crystals

City of event: Zaragoza, Spain

Date of event: 31/08/2009

End date: 04/09/2009

C. L. Folcia; J. Etxebarria; J. Ortega; I. Alonso; J. Martínez-Perdigero; I. Pintre; N. Gimeno; M. B. Ros.

19 Title of the work: Study of the molecular arrangement and electric response in the SmA phase of a V-shaped mesogen

Name of the conference: 12th International Conference on Ferroelectric Liquid Crystals

City of event: Zaragoza, Spain

Date of event: 31/08/2009

End date: 04/09/2009

I. Alonso; J. Martínez-Perdigero; C. L. Folcia; J. Ortega; J. Etxebarria; N. Gimeno; M. B. Ros.

20 Title of the work: B4 phase revisited: new structural results

Name of the conference: 22nd International Liquid Crystal Conference

City of event: Jeju - Korea,

Date of event: 29/06/2008

End date: 04/07/2008

J. Martínez-Perdigero; I. Alonso; J. Ortega; C. L. Folcia; J. Etxebarria; I. Pintre; M. B. Ros.

21 Title of the work: New bent-core molecules designed for high nonlinear optical response

Name of the conference: 22nd International Liquid Crystal Conference

City of event: Jeju - Korea,

Date of event: 29/06/2008

End date: 04/07/2008

I. Alonso; J. Martínez-Perdigero; J. Etxebarria; J. Ortega; C. L. Folcia; I. Pintre; M. B. Ros.

22 Title of the work: Banana-shaped structures in the liquid crystal field

Name of the conference: Workshop Banana'07

City of event: Tokio, Japan

Date of event: 10/09/2007

End date: 12/09/2007

M. B. Ros; R. Jiménez; J. L. Serrano; M. R. de la Fuente; J. Etxebarria; C. L. Folcia; J. Ortega; D. B. Amabilino; N. Martín; L. Sánchez.

23 Title of the work: Different approaches to the design of functional liquid crystals based on banana-shaped structures

Name of the conference: 11th International Conference on Ferroelectric Liquid Crystals



City of event: Sapporo, Japan

Date of event: 03/09/2007

End date: 08/09/2007

M. B. Ros; J. L. Serrano; J. Etxebarria; C. L. Folcia; J. Ortega; M. R. de la Fuente.

24 Title of the work: Nonlinear-optical properties of bent-shaped compounds derived from 3,4'-biphenylene

Name of the conference: 11th International Conference on Ferroelectric Liquid Crystals

City of event: Sapporo, Japan

Date of event: 03/09/2007

End date: 08/09/2007

I. Alonso; J. Martínez-Perdigero; C. L. Folcia; J. Ortega; J. Etxebarria; N. Gimeno; I. C. Pintre; M. B. Ros.

25 Title of the work: Polar structures of bent-core mesogens with tetrathiafulvalene units

Name of the conference: 11th International Conference on Ferroelectric Liquid Crystals

City of event: Sapporo, Japan

Date of event: 03/09/2007

End date: 08/09/2007

J. Martínez-Perdigero; I. Alonso; C. L. Folcia; J. Etxebarria; J. Ortega; I. C. Pintre; M. B. Ros.

26 Title of the work: Quantitative análisis of the x-ray diffraction intensities of undulated smectic phases in bent-core liquid crystals

Name of the conference: 11th International Conference on Ferroelectric Liquid Crystals

City of event: Sapporo, Japan

Date of event: 03/09/2007

End date: 08/09/2007

C. L. Folcia; J. Ortega; J. Etxebarria.

27 Title of the work: Achiral bent-core liquid crystals with azo and azoxy linkages: Structural, nonlinear optical properties and photoisomerization

Name of the conference: 21st International Liquid Crystal Conference

City of event: Keystone, Colorado, United States of America

Date of event: 02/07/2006

End date: 07/07/2006

C. L. Folcia; I. Alonso; J. Ortega; J. Etxebarria; I. Pintre; M. B. Ros.

28 Title of the work: Optically isotropic phases in a bent-core liquid crystal: Origin, structure and applications

Name of the conference: 21st International Liquid Crystal Conference

City of event: Keystone, Colorado, United States of America

Date of event: 02/07/2006

End date: 07/07/2006

I. Alonso; J. Martínez-Perdigero; C. L. Folcia; J. Etxebarria; J. Ortega.

29 Title of the work: Structural study of a bent-core liquid crystal showing the B1-B2 transition

Name of the conference: 21st International Liquid Crystal Conference

City of event: Keystone, Colorado, United States of America

Date of event: 02/07/2006

End date: 07/07/2006

C. L. Folcia; J. Etxebarria; J. Ortega; M. B. Ros.



30 Title of the work: Do the B7-like textures represent a unique structure? The case of the reference material 8-OPIMB-NO2

Name of the conference: 10th Conference on Ferroelectric Liquid Crystals

City of event: Stare Jablonki, Poland

Date of event: 12/09/2005

End date: 17/09/2005

C. L. Folcia; J. Etxebarria; J. Ortega; M. B. Ros.

31 Title of the work: Fabrication and nonlinear optical properties of monodomain polymers derived from bent-core mesogens

Name of the conference: 10th Conference on Ferroelectric Liquid Crystals

City of event: Stare Jablonki, Poland

Date of event: 12/09/2005

End date: 17/09/2005

J. A. Gallastegui; J. Ortega; C. L. Folcia; J. Etxebarria; N. Gimeno; M. B. Ros.

32 Title of the work: Linear and nonlinear optical properties in a bent-core mesogen showing an electric-field-induced B1-B2 transition

Name of the conference: 20th International Liquid Crystal Conference

City of event: Ljubljana, Slovenia

Date of event: 04/07/2004

End date: 09/07/2004

J. Ortega; C. L. Folcia; J. Etxebarria; J. A. Gallastegui; N. Gimeno; M. B. Ros.

33 Title of the work: Selection rules for x-ray scattering in the B7 and B1 phases

Name of the conference: 20th International Liquid Crystal Conference

City of event: Ljubljana, Slovenia

Date of event: 04/07/2004

End date: 09/07/2004

C. L. Folcia; J. Ortega; J. Etxebarria.

34 Title of the work: Field-induced ferroelectric phase in a liquid crystal composed of achiral banana-shaped molecules

Name of the conference: 6th Ibero-American Workshop on Complex Fluids and their Applications

City of event: Lisboa, Portugal

Date of event: 14/09/2003

End date: 17/09/2003

C. L. Folcia; J. Ortega; J. A. Gallastegui; J. Etxebarria; M. B. Ros.

35 Title of the work: Interpretation of unusual textures in the B2 phase of a liquid crystal composed of banana-shaped molecules

Name of the conference: 6th Ibero-American Workshop on Complex Fluids and their Applications

City of event: Lisboa, Portugal

Date of event: 14/09/2003

End date: 17/09/2003

J. Ortega; C. L. Folcia; J. Etxebarria; N. Gimeno; M. B. Ros.

36 Title of the work: Structure-property relationship and liquid crystalline behaviour of new materials based on banana-shaped compounds

Name of the conference: 6th Ibero-American Workshop on Complex Fluids and their Applications

City of event: Lisboa, Portugal



Date of event: 14/09/2003

End date: 17/09/2003

J. Barberá; P. Forcén; N. Gimeno; L. Monreal; L. Puig; M. B. Ros; J. L. Serrano; C. L. Folcia; J. Ortega; S. Díez.

37 Title of the work: Optical properties of banana-shaped liquid crystals in aligned samples

Name of the conference: 9th International Ferroelectric Liquid Crystals Conference

City of event: Dublín, Ireland

Date of event: 24/08/2003

End date: 29/08/2003

C. L. Folcia; J. Etxebarria; J. Ortega; J. A. Gallastegui; N. Gimeno; M. B. Ros.

38 Title of the work: Banana-shaped mesogens: unusual textures, ferroelectricity and antiferroelectricity

Name of the conference: 7th European Conference on Liquid Crystals

City of event: Jaca, Spain

Date of event: 06/04/2003

End date: 11/04/2003

J. Ortega; C. L. Folcia; J. Etxebarria.

39 Title of the work: Characterisation of the second harmonic generation properties of banana-shaped liquid crystals

Name of the conference: 7th European Conference on Liquid Crystals

City of event: Jaca, Spain

Date of event: 06/04/2003

End date: 11/04/2003

J. A. Gallastegui; C. L. Folcia; J. Etxebarria; J. Ortega; I. de Francisco; M. B. Ros.

40 Title of the work: Texture analysis of banana-shaped liquid crystals in aligned samples

Name of the conference: 7th European Conference on Liquid Crystals

City of event: Jaca, Spain

Date of event: 06/04/2003

End date: 11/04/2003

J. A. Gallastegui; C. L. Folcia; J. Etxebarria; J. Ortega; N. Gimeno; M. B. Ros.

41 Title of the work: Determination of the helical pitch in the smectic C $\square\Box$ by means of gyrotropy measurements

Name of the conference: 19th International Liquid Crystal Conference

City of event: Edimburgo, United Kingdom

Date of event: 30/06/2002

End date: 05/07/2002

J. Ortega; C. L. Folcia; J. Etxebarria; P. Karahaliou; M. B. Ros.

42 Title of the work: Electroclinic effect around a smectic A-chiral nematic phase transition

Name of the conference: 19th International Liquid Crystal Conference

City of event: Edimburgo, United Kingdom

Date of event: 30/06/2002

End date: 05/07/2002

C. L. Folcia; J. Ortega; J. Etxebarria.



43 Title of the work: Structure-property relationship and optical behaviour of new banana-shaped liquid crystal molecules

Name of the conference: 19th International Liquid Crystal Conference

City of event: Edimburgo, United Kingdom

Date of event: 30/06/2002

End date: 05/07/2002

P. Forcén; N. Gimeno; L. Puig; M. B. Ros; J. L. Serrano; T. Sierra; C. L. Folcia; J. Ortega; J. A. Gallastegui.

44 Title of the work: Electroclinic effect around a smectic A-chiral nematic phase transition

Name of the conference: 10th International Meeting on Ferroelectricity

City of event: Madrid, Spain

Date of event: 03/09/2001

End date: 07/09/2001

J. Ortega; C. L. Folcia; J. Etxebarria.

45 Title of the work: The problem of gyrotropy in nonhomogeneous media: the case of short pitch chiral-smectic-C liquid crystals and incommensurate structures

Name of the conference: 10th International Meeting on Ferroelectricity

City of event: Madrid, Spain

Date of event: 03/09/2001

End date: 07/09/2001

J. Etxebarria; C. L. Folcia; J. Ortega.

46 Title of the work: Spatial dispersion and gyrotropic tensor in short-pitch SmC* liquid crystals

Name of the conference: 6th European Conference on Liquid Crystals

City of event: Halle, Germany

Date of event: 25/03/2001

End date: 30/03/2001

J. Etxebarria; C. L. Folcia; J. Ortega.

47 Title of the work: Switching dynamics in homeotropic ferroelectric liquid crystals

Name of the conference: IV Workshop Iberoamericano de Fluidos Complejos y sus Aplicaciones

City of event: Jaca, Spain

Date of event: 26/09/1999

End date: 29/09/1999

N. Pereda; C. L. Folcia; J. Etxebarria; J. Ortega.

48 Title of the work: Electronic electrooptic study in photopolymers derived from ferroelectric liquid crystals

Name of the conference: 7th International Conference on Ferroelectric Liquid Crystals

City of event: Darmstadt, Germany

Date of event: 29/08/1999

End date: 03/09/1999

N. Pereda; J. Etxebarria; C. L. Folcia; J. Ortega; C. Artal; J. L. Serrano.

49 Title of the work: NLO properties of low molecular weight FLCs and several photopolymers derived from them

Name of the conference: III Seminario Iberoamericano en Tecnología de Cristal Líquido

City of event: Madrid, Spain

Date of event: 26/10/1998

End date: 28/10/1998

N. Pereda; J. Etxebarria; J. Ortega; C. L. Folcia; C. Artal; M. B. Ros; J. L. Serrano.



50 Title of the work: NLO properties of low molecular weight FLCs and several photopolymers derived from them

Name of the conference: 17th International Liquid Crystal Conference

City of event: Strasbourg, France

Date of event: 19/07/1998

End date: 24/07/1998

N. Pereda; J. Etxebarria; J. Ortega; C. L. Folcia; C. Artal; M. B. Ros; J. L. Serrano.

51 Title of the work: Second harmonic generation in planar samples of FLCs

Name of the conference: 17th International Liquid Crystal Conference

City of event: Strasbourg, France

Date of event: 19/07/1998

End date: 24/07/1998

N. Pereda; J. Ortega; C. L. Folcia; J. Etxebarria.

52 Title of the work: Nonlinear optical properties of metal-containing FLCs

Name of the conference: 5ta Reunión de la Red Europea (EC Human Capital & Mobility Network) de Cristales Líquidos

City of event: Lekeitio, Spain

Date of event: 12/09/1996

End date: 16/09/1996

J. Ortega; C. L. Folcia; J. Etxebarria.

53 Title of the work: Nonlinear optical properties of metallorganic ferroelectric liquid crystals

Name of the conference: 16th International Liquid Crystal Conference

City of event: Kent, Ohio, United States of America

Date of event: 24/06/1996

End date: 28/06/1996

J. Ortega; C. L. Folcia; J. Etxebarria; R. Iglesias; M. B. Ros; J. L. Serrano; L. Díez; P. Espinet; J. A. Miguel.

54 Title of the work: Ferroelectric liquid crystal materials with electronic nonlinear response

Name of the conference: 5th International Conference on Ferroelectric Liquid Crystals

City of event: Cambridge, United Kingdom

Date of event: 23/07/1995

End date: 27/07/1995

C. Artal; J. Etxebarria; C. L. Folcia; Y. González; J. Ortega; J. Osma; M. B. Ros; J. L. Serrano.

55 Title of the work: Second-order nonlinear optical studies in ferroelectric liquid crystals

Name of the conference: European Conference on Liquid Crystals ECLC 95

City of event: Bovec, Slovenia

Date of event: 05/03/1995

End date: 10/03/1995

C. L. Folcia; J. Etxebarria.

56 Title of the work: Second harmonic generation in ferroelectric liquid crystals

Name of the conference: 4ta Reunión de la Red Europea (EC Human Capital & Mobility Network) de Cristales Líquidos

City of event: Vravrona, Greece

Date of event: 29/09/1994

End date: 02/10/1994



C. L. Folcia.

57 Title of the work: Optical properties of tetramethylammonium tetrachlorozincate in the incommensurate phase

Name of the conference: The 8th International Meeting on Ferroelectricity

City of event: Gaithersburg, Maryland, United States of America

Date of event: 08/08/1993

End date: 13/08/1993

J. Ortega; C. L. Folcia; J. Etxebarria; T. Breczewski.

58 Title of the work: Simultaneous determination of the birefringence, optical activity, and rotation of the indicatrix of TGFB

Name of the conference: The 8th International Meeting on Ferroelectricity

City of event: Gaithersburg, Maryland, United States of America

Date of event: 08/08/1993

End date: 13/08/1993

J. Ortega; C. L. Folcia; J. Etxebarria; T. Breczewski.

59 Title of the work: A model for the ferroelectric behaviour of TMAXCl4 with X=Co, Zn

Name of the conference: The 7th International Meeting on Ferroelectricity

City of event: Saarbrücken, Germany

Date of event: 28/08/1989

End date: 01/09/1989

C. L. Folcia; J. M. Pérez-Mato; F. J. Zúñiga; G. Madariaga; M. J. Tello.

60 Title of the work: Efectos cinéticos en la transición lock-in en cristales ferroeléctricos incommensurables

Name of the conference: XXI Reunión Bienal de la Real Sociedad Española de Física

City of event: Salamanca, Spain

Date of event: 04/10/1987

End date: 10/10/1987

C. L. Folcia; J. M. Pérez-Mato; M. J. Tello; E. H. Bocanegra.

61 Title of the work: Propiedades estructurales y físicas de fases incommensurables

Name of the conference: Primera Reunión Nacional de Grupos de Física del Estado Sólido (GEFES 1)

City of event: El Escorial, Spain

Date of event: 15/09/1987

End date: 15/09/1987

J. M. Pérez-Mato; G. Madariaga; F. J. Zúñiga; C. L. Folcia; M. J. Tello.

62 Title of the work: Kinetic behaviour and memory effects at the incommensurate phase of Rb₂ZnBr₄

Name of the conference: 6th European Meeting on Ferroelectricity

City of event: Poznan, Poland

Date of event: 07/09/1987

End date: 11/09/1987

C. L. Folcia; J. M. Pérez-Mato; M. J. Tello.

63 Title of the work: Memory effect at the ferroelectric commensurate phase of some A₂BX₄ compounds

Name of the conference: 6th European Meeting on Ferroelectricity

City of event: Poznan, Poland

Date of event: 07/09/1987

End date: 11/09/1987



CURRÍCULUM VÍTAE NORMALIZADO

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C. L. Folcia; J. M. Pérez-Mato; M. J. Tello.

