



Ignacio Gil Galí

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**Ignacio Gil Galí**

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Current professional situation only if working (not if unemployed)

Name of the entity: Universitat Politècnica de Catalunya **Type of body:** University
Department, Service,...: Department of Electronic Engineering, Terrassa School of Engineering (EET)
Category / Title of position or responsibility: University lecturer **Educational management:** SI
Start date: 16/09/2011
Modality of the contract: Civil servant **Type of dedication:** Full time
Current professional activity: Professor/a titular d'universitat

Name of the entity: Universitat Politècnica de Catalunya **Type of body:** University
Department, Service,...: Department of Electronic Engineering
Category / Title of position or responsibility: Representant de la Unitat Departamental a la Unitat Docent d'Enginyeria Elèctrica (Escola d'Enginyeria de Terrassa) **Educational management:** NO
Start date: 01/09/2009

Positions held before current job

	Name of the entity	Category / position or responsibility	Start date
1	Universitat Politècnica de Catalunya	Lecturer	01/09/2008
2	Universitat de Barcelona	Researcher	01/01/2008
3	Universitat Autònoma de Barcelona	Associate lecturer	15/02/2006
4	EPSON Europe Electronics GmbH	Ingeniero de radiofrecuencia de I+D	15/02/2006
5	Universitat Autònoma de Barcelona	Assistant	15/09/2004
6	Universitat Autònoma de Barcelona	Associate lecturer	27/02/2003
7	Escola Sant Gervasi	Profesor de secundaria	01/08/2001



- 1** **Name of the entity:** Universitat Politècnica de Catalunya **Type of body:** University
Department, Service,...: Department of Electronic Engineering, Terrassa School of Engineering (EET)
Category / position or responsibility: Lecturer **Teaching Management:** SI
Start date: 01/09/2008 , 3 years - 15 days
Modality of the contract: Temporary employment contract
Type of dedication: Full time
Main specialisation (UNESCO code): 330700 - Electronic technology
Professional activity: Professor Lector
- 2** **Name of the entity:** Universitat de Barcelona **Type of body:** University
Category / position or responsibility: Researcher **Teaching Management:** NO
Start date: 01/01/2008 , 7 months - 16 days
Modality of the contract: Investigador
Type of dedication: Full time
Professional activity: Investigador
- 3** **Name of the entity:** Universitat Autònoma de Barcelona **Type of body:** Body, others
Department, Service,...: Department of Electronic Engineering
Category / position or responsibility: Associate lecturer **Teaching Management:** SI
Start date: 15/02/2006 , 2 years - 6 months - 17 days
Modality of the contract: Profesor asociado
Type of dedication: Full time
Professional activity: Profesor asociado
- 4** **Name of the entity:** EPSON Europe Electronics GmbH **Type of body:** R&D Centre
Category / position or responsibility: Ingeniero de radiofrecuencia de I+D **Teaching Management:** NO
Start date: 15/02/2006 , 1 year - 8 months - 3 days
Modality of the contract: Ingeniero de radiofrecuencia de I+D
Type of dedication: Full time
Professional activity: Ingeniero de radiofrecuencia de I+D
- 5** **Name of the entity:** Universitat Autònoma de Barcelona **Type of body:** Body, others
Department, Service,...: Department of Electronic Engineering
Category / position or responsibility: Assistant **Teaching Management:** SI
Start date: 15/09/2004 , 1 year - 5 months - 3 days
Modality of the contract: Profesor ayudante
Type of dedication: Full time
Professional activity: Profesor ayudante
- 6** **Name of the entity:** Universitat Autònoma de Barcelona **Type of body:** Body, others
Department, Service,...: Department of Electronic Engineering
Teaching Management: SI



Category / position or responsibility: Associate lecturer

Start date: 27/02/2003 , 1 year - 6 months - 20 days

Modality of the contract: Profesor asociado

Type of dedication: Full time

Professional activity: Profesor asociado

7 Name of the entity: Escola Sant Gervasi

Type of body: R&D Centre

Category / position or responsibility: Profesor de secundaria

Teaching Management: SI

Start date: 01/08/2001 , 1 year - 1 month

Modality of the contract: Profesor de secundaria

Type of dedication: Full time

Professional activity: Profesor de secundaria



Training received

University education

Diplomas, degrees and engineering degrees

- 1 Official University Qualification:** Higher degree
Name of qualification: Ingeniería Electrónica
Entity issuing the qualification: Universitat Autònoma de Barcelona
Date of qualification: 26/01/2004
Foreing qualification: Ingeniería Electrónica
Type of body: R&D Centre
- 2 Official University Qualification:** Higher degree
Name of qualification: Licenciatura en Física
Entity issuing the qualification: Universitat Autònoma de Barcelona
Date of qualification: 18/09/2000
Foreing qualification: Licenciatura en Física
Type of body: R&D Centre

Doctorates

Doctorate: Doctor Ingeniero en Electrónica
University issuing the title: Universitat Autònoma de Barcelona
Date of qualification: 29/06/2007
Type of body: R&D Centre

Specialist, ongoing, technical, professional training (other than formal academic and healthcare training)

- 1 Title of the specific:** Presentacions eficients
Date of end of training: 30/11/2010
- 2 Title of the specific:** Propietat intel·lectual a la Universitat: qüestions bàsiques
Date of end of training: 25/02/2010
- 3 Title of the specific:** Refworks: Gestor de referències bibliogràfiques (Campus Terrassa)
Date of end of training: 11/12/2009
- 4 Title of the specific:** Web of Knowledge (Base de Dades d'ISI)
Date of end of training: 16/07/2009



- 5 Title of the specific:** Assaig d'una experiència d'aprenentatge actiu
Date of end of training: 30/06/2009

- 6 Title of the specific:** Observacions de companys a classe
Date of end of training: 28/05/2009

- 7 Title of the specific:** RF-SiP Design and RF System Integration
Entity issuing the qualification: IMEC **Type of body:** R&D Centre
Date of end of training: 24/05/2007

- 8 Title of the specific:** RF Analog IC Design
Entity issuing the qualification: EPFL **Type of body:** R&D Centre
Date of end of training: 15/06/2006

- 9 Title of the specific:** Tècniques de Programación en LABVIEW
Date of end of training: 15/09/2005

- 10 Title of the specific:** MEMS in RF and Microwave Electronics
Entity issuing the qualification: IMEC **Type of body:** R&D Centre
Date of end of training: 19/04/2005

- 11 Title of the specific:** Smart MEMS for RF and Millimeter Wave Communications
Date of end of training: 11/10/2004

- 12 Title of the specific:** Educació de la veu i fonatria
Date of end of training: 30/06/2004

Courses and seminars taken in advanced teacher training, teaching skills, new technologies, intended to improve teaching skills

- 1 Title of course/seminar:** Integració de la competència genèrica TREBALL EN EQUIP a l'assignatura
End date: 18/02/2010

- 2 Title of course/seminar:** Definició d'objectius de l'assignatura
End date: 24/07/2009

- 3 Title of course/seminar:** L'avaluació de l'aprenentatge
End date: 30/06/2009

- 4 Title of course/seminar:** Com aprenen els nostres estudiants
End date: 29/01/2009

- 5 Title of course/seminar:** La Tutoria a la Universitat
End date: 30/06/2004



- 6 Title of course/seminar:** Introducció a Dreamweaver
End date: 27/02/2004
- 7 Title of course/seminar:** L'avaluació de coneixements
End date: 27/02/2004
- 8 Title of course/seminar:** Resoldre problemes per aprendre ciències
End date: 27/02/2004
- 9 Title of course/seminar:** L'aprenentatge per problemes i l'espai europeu d'educació superior
End date: 27/02/2004
- 10 Title of course/seminar:** Certificat d' Aptitud Pedagògica (CAP) en l'especialitat de Matemàtiques
End date: 20/09/2001

Language skills

Language	Speech	Reading	Writing
Catalan	Good	Good	Good
Spanish	Good	Good	Good
English	Good	Good	Good
French	Good	Good	Good

Teaching experience

Teaching work

- 1 Name of subject/ name of course:** Electrical and Electronic Systems
Title : Enginyeria Aeronàutica
Course of the qualification taught: 3
Date of the last time: 2011 **Hours/credits:** Credits
Number of hours/credits: 6
Body where project took place: Universitat Politècnica de Catalunya
Department: Escola Tècnica Superior d'Enginyeries Industrial i Aeronàutica de Terrassa
- 2 Name of subject/ name of course:** Basic Electronics
Title : Industrial Engineering
Course of the qualification taught: 3
Date of the last time: 2010 **Hours/credits:** Credits
Number of hours/credits: 4,5
Body where project took place: Universitat Politècnica de Catalunya
Department: Escola Tècnica Superior d'Enginyeries Industrial i Aeronàutica de Terrassa



- 3 Name of subject/ name of course:** Electrical and Electronic Systems
Title : Enginyeria Aeronàutica
Course of the qualification taught: 3
Date of the last time: 2010 **Hours/credits:** Credits
Number of hours/credits: 6
Body where project took place: Universitat Politècnica de Catalunya
Department: Escola Tècnica Superior d'Enginyeries Industrial i Aeronàutica de Terrassa
- 4 Name of subject/ name of course:** Electromagnetic Compatibility in Power and Control Systems
Title : Degree in Electronics Engineering
Course of the qualification taught: 1
Date of the last time: 2010 **Hours/credits:** Credits
Number of hours/credits: 6
Body where project took place: Universitat Politècnica de Catalunya
Department: Escola Tècnica Superior d'Enginyeria de Telecomunicació de Barcelona
- 5 Name of subject/ name of course:** Equipment and Acoustics Systems and Video
Title : Eng. Tecnica Telecomunicacio, Esp, So i Imatge
Course of the qualification taught: 2
Date of the last time: 2010 **Hours/credits:** Credits
Number of hours/credits: 6
Body where project took place: Universitat Politècnica de Catalunya
Department: Escola d'Enginyeria de Terrassa
- 6 Name of subject/ name of course:** Electronic Systems
Title : Industrial Electronics and Automatic Control
Course of the qualification taught: 1
Date of the last time: 2010 **Hours/credits:** Credits
Number of hours/credits: 6
Body where project took place: Universitat Politècnica de Catalunya
Department: Escola d'Enginyeria de Terrassa
- 7 Name of subject/ name of course:** Implementation of Audiovisual Systems
Title : Audiovisuals Systems
Course of the qualification taught: 1
Date of the last time: 2010 **Hours/credits:** Credits
Number of hours/credits: 6
Body where project took place: Universitat Politècnica de Catalunya
Department: Escola d'Enginyeria de Terrassa
- 8 Name of subject/ name of course:** Analogue Electronics
Title : Audiovisuals Systems
Course of the qualification taught: 1
Date of the last time: 2010 **Hours/credits:** Credits
Number of hours/credits: 6
Body where project took place: Universitat Politècnica de Catalunya
Department: Escola d'Enginyeria de Terrassa
- 9 Name of subject/ name of course:** Basic Electronics
Title : Industrial Engineering
Course of the qualification taught: 3



Date of the last time: 2009 **Hours/credits:** Credits
Number of hours/credits: 4,5
Body where project took place: Universitat Politècnica de Catalunya
Department: Escola Tècnica Superior d'Enginyeries Industrial i Aeronàutica de Terrassa

10 Name of subject/ name of course: Electrical and Electronic Systems
Title : Enginyeria Aeronàutica
Course of the qualification taught: 3
Date of the last time: 2009 **Hours/credits:** Credits
Number of hours/credits: 6
Body where project took place: Universitat Politècnica de Catalunya
Department: Escola Tècnica Superior d'Enginyeries Industrial i Aeronàutica de Terrassa

11 Name of subject/ name of course: Electromagnetic Compatibility in Power and Control Systems
Title : Degree in Electronics Engineering
Course of the qualification taught: 1
Date of the last time: 2009 **Hours/credits:** Credits
Number of hours/credits: 6
Body where project took place: Universitat Politècnica de Catalunya
Department: Escola Tècnica Superior d'Enginyeria de Telecomunicació de Barcelona

12 Name of subject/ name of course: Analogue Electronics
Title : Eng. Técnica Telecomunicacio, Esp, So i Imatge
Course of the qualification taught: 1
Date of the last time: 2009 **Hours/credits:** Credits
Number of hours/credits: 7,5
Body where project took place: Universitat Politècnica de Catalunya
Department: Escola d'Enginyeria de Terrassa

13 Name of subject/ name of course: Equipment and Acoustics Systems and Video
Title : Eng. Técnica Telecomunicacio, Esp, So i Imatge
Course of the qualification taught: 2
Date of the last time: 2009 **Hours/credits:** Credits
Number of hours/credits: 6
Body where project took place: Universitat Politècnica de Catalunya
Department: Escola d'Enginyeria de Terrassa

14 Name of subject/ name of course: Industrial Electronics
Title : Eng. Técnica Industrial, Esp. Electricitat
Course of the qualification taught: 1
Date of the last time: 2009 **Hours/credits:** Credits
Number of hours/credits: 9
Body where project took place: Universitat Politècnica de Catalunya
Department: Escola d'Enginyeria de Terrassa

15 Name of subject/ name of course: Electromagnetic Compatibility in Power and Control Systems
Title : Degree in Electronics Engineering
Course of the qualification taught: 1
Date of the last time: 2008 **Hours/credits:** Credits
Number of hours/credits: 6
Body where project took place: Universitat Politècnica de Catalunya



Department: Escola Tècnica Superior d'Enginyeria de Telecomunicació de Barcelona

- 16 Name of subject/ name of course:** Analogue Electronics
Title : Eng. Tècnica Telecomunicacio, Esp, So i Imatge
Course of the qualification taught: 1
Date of the last time: 2008 **Hours/credits:** Credits
Number of hours/credits: 7,5
Body where project took place: Universitat Politècnica de Catalunya
Department: Escola d'Enginyeria de Terrassa
- 17 Name of subject/ name of course:** Equipment and Acoustics Systems and Video
Title : Eng. Tècnica Telecomunicacio, Esp, So i Imatge
Course of the qualification taught: 2
Date of the last time: 2008 **Hours/credits:** Credits
Number of hours/credits: 6
Body where project took place: Universitat Politècnica de Catalunya
Department: Escola d'Enginyeria de Terrassa
- 18 Name of subject/ name of course:** Industrial Electronics
Title : Eng. Tècnica Industrial, Esp. Electricitat
Course of the qualification taught: 1
Date of the last time: 2008 **Hours/credits:** Credits
Number of hours/credits: 9
Body where project took place: Universitat Politècnica de Catalunya
Department: Escola d'Enginyeria de Terrassa
- 19 Name of subject/ name of course:** Analogue Electronics
Title : Eng. Tècnica Industrial, Esp. Electrònica Ind.
Course of the qualification taught: 1
Date of the last time: 2008 **Hours/credits:** Credits
Number of hours/credits: 6
Body where project took place: Universitat Politècnica de Catalunya
Department: Escola d'Enginyeria de Terrassa

Creation of teaching materials

- 1** Ignacio Gil Galí. *Apunts d'Equips i Sistemes Acústics i de Vídeo.*
Name of the teaching materials: Apunts d'Equips i Sistemes Acústics i de Vídeo
Type of platform: Notes
Position of the applicant in the total: 1
- 2** Ignacio Gil Galí. *Apunts de Filtres Analògics i Digitals.*
Name of the teaching materials: Apunts de Filtres Analògics i Digitals
Type of platform: Notes
Position of the applicant in the total: 1
- 3** Ignacio Gil Galí. *Apunts d'Instrumentació Electrònica.*
Name of the teaching materials: Apunts d'Instrumentació Electrònica
Type of platform: Notes
Position of the applicant in the total: 1



- 4** Ignacio Gil Galí. *Apunts de Sistemes Electrònics*.
Name of the teaching materials: Apunts de Sistemes Electrònics
Type of platform: Notes
Position of the applicant in the total: 1

Participation in conferences with content oriented to teacher training

Name of the conference: VI International Congress of University Teaching and Innovation
Your role: Speaker
City of celebration: Barcelona, Spain
Date of the presentation: 2010
Publication, Type: Scientific and technical document or report
Potenciación del aprendizaje autónomo en electrónica analógica mediante el simulador Multisim. *Proceedings of the International Congress of University Teaching and Innovation*. pp. 0 - 0. 30/06/2010 .

Awards received for innovation in teaching

Name: Mention Premi Extraordinari Enginyeria Electrònica Premi Extraordinari de la Titulació d'Enginyeria Electrònica corresponent al curs acadèmic 2002-2003.
Issuing body: Universitat Autònoma de Barcelona
Date of credit: 01/09/2003

Other activities / credits not included in the above list

- 1** **Description of the activity:** Responsable d'assignatures. Assignatura: Analogue Electronics
Organising body: Escola d'Enginyeria de Terrassa **Type of body:** University
(Universitat Politècnica de Catalunya)
Activity end date: 2009
- 2** **Description of the activity:** Responsable d'assignatures. Assignatura: Analogue Electronics
Organising body: Escola d'Enginyeria de Terrassa **Type of body:** University
(Universitat Politècnica de Catalunya)
Activity end date: 2008
- 3** **Description of the activity:** Member de Unitat Docent d'Enginyeria Elèctrica



Experience in Science and Technology

Scientific or technological activity

Participation in R&D&I projects funded in competitive tenders by public or private bodies

- 1** **Name of the project:** CARACTERIZACION Y MODELADO DE LA FIABILIDAD Y ROBUSTEZ DE INTERFERENCIAS ELECTROMAGNTICAS RADIOFRECUENCIA CIRCUITOS INTEGRADOS

Project area: National

Your role in the project: Scientific co-ordinator

Body where project took place: Department of Electronic Engineering

City : Barcelona, Spain

Head(s) researcher(s): Ignacio Gil Galí

Number of participating researchers: 1

Funding body or bodies: Ministerio de Ciencia e Innovación (MICINN) **Type of body:** Ministerio

Code according to the funding body: TEC2010-18550

Start date: 01/01/2011 , 3 years

Total amount: 86.757
- 2** **Name of the project:** IMPACTO DE LAS RFI EN CIRCUITOS SOMETIDOS A NUEVOS MECANISMOS DE FALLO Y AUMENTO DE SU INMUNIDAD MEDIANTE EL USO DE METAMATERIALES

Project area: National

Your role in the project: Scientific co-ordinator

Body where project took place: Department of Electronic Engineering

City : Barcelona, Spain

Head(s) researcher(s): Ignacio Gil Galí

Number of participating researchers: 1

Funding body or bodies: Ministerio de Ciencia e Innovación (MICINN) **Type of body:** Ministerio

Code according to the funding body: TEC2009-09994

Start date: 01/01/2010 , 1 year

Total amount: 8.470
- 3** **Name of the project:** Compatibilitat Electromagnetica en Circuits Integrats

Project area: Regional

Your role in the project: Researcher

Body where project took place: AGAUR Agencia de Gestio d'Ajuts Universitaris i de Recerca

Head(s) researcher(s): Raúl Fernández García

Number of participating researchers: 4

Funding body or bodies: Generalitat Catalunya **Type of body:** Generalitat Catalunya

Code according to the funding body: 2009SGR1425

Start date: 01/09/2009 , 5 years
- 4** **Name of the project:** Ayuda para la iniciación o reincorporación a la actividad de investgacion en la Universitat Politècnica de Catalunya

Your role in the project: Researcher



Body where project took place: UPC, Dep. Ingeniería Electrónica, Grupo TIEG

Head(s) researcher(s): Raúl Fernández García

Number of participating researchers: 3

Funding body or bodies: Universitat Politècnica de Catalunya **Type of body:** University

Start date: 01/04/2009 , 2 years

Total amount: 10.700

5 Name of the project: Análisis y Técnicas de Reducción de EMI En Convertidores Matriciales y Sistemas Multiconvertidor: Interacción con los Sistemas de Comunicaciones por Línea (PLC) (TEC2007-615827/MIC)

Project area: National

Your role in the project: Researcher

Body where project took place: Department of Electronic Engineering

City : Barcelona, Spain

Head(s) researcher(s): Josep Balcells Sendra

Number of participating researchers: 2

Funding body or bodies: MCYT

Type of body: Body, others

Start date: 01/10/2007 , 3 years

Total amount: 248.171

6 Name of the project: Reconocimiento como grupo de investigación singular por la agencia de gestión y ayudas universitarias de investigación.

Project area: National

Your role in the project: Researcher

Body where project took place: Department of Electronic Engineering

City : Barcelona, Spain

Head(s) researcher(s): Juan Fernando Martín Antolín

Number of participating researchers: 2

Funding body or bodies: AGAUR- Generalitat de Catalunya

Type of body: R&D Centre

Start date: 01/01/2005 , 3 years

Total amount: 30.600

7 Name of the project: Acción especial para la creación de una red nacional de metamateriales

Project area: National

Your role in the project: Researcher

Body where project took place: Department of Electronic Engineering

City : Barcelona, Spain

Head(s) researcher(s): Ricardo Marqués Sillero

Number of participating researchers: 2

Funding body or bodies: Ministerio de Ciencia y Tecnología

Type of body: R&D Centre

Start date: 01/01/2005 , 1 year

Total amount: 12.000

8 Name of the project: Miniturización de circuitos de microondas mediante técnicas basadas en metamateriales: Aplicación a la optimización de terminales de comunicaciones

Project area: National

Your role in the project: Researcher

Body where project took place: Department of Electronic Engineering

City : Barcelona, Spain



Head(s) researcher(s): Juan Fernando Martín Antolín

Number of participating researchers: 2

Funding body or bodies: Universitat Autònoma de Barcelona **Type of body:** R&D Centre

Start date: 01/01/2004 , 1 year - 1 day

Total amount: 6.000

9 Name of the project: Diseño, caracterización y aplicación de estructuras basadas en metamateriales al desarrollo de subsistemas de microondas y milimétricas

Project area: National

Your role in the project: Researcher

Body where project took place: Department of Electronic Engineering

City : Barcelona, Spain

Head(s) researcher(s): Juan Fernando Martín Antolín

Number of participating researchers: 2

Funding body or bodies: Ministerio de Ciencia y Tecnología **Type of body:** State agency

Start date: 01/01/2004 , 3 years - 1 day

Total amount: 142.000

10 Name of the project: Estudio y control de la propagación de microondas y de ondas milimétricas por metamateriales

Project area: National

Your role in the project: Researcher

Body where project took place: Department of Electronic Engineering

City : Barcelona, Spain

Head(s) researcher(s): Jose A. Marcotegui Itumendi

Number of participating researchers: 2

Funding body or bodies: Ministerio de Ciencia y Tecnología **Type of body:** State agency

Start date: 01/01/2004 , 1 year - 1 day

Total amount: 158.000

11 Name of the project: TELEMAT. Estudio y control de la propagación de microondas y ondas milimétricas por metamateriales

Project area: European Union

Your role in the project: Researcher

Body where project took place: Department of Electronic Engineering

City : Barcelona, Spain

Head(s) researcher(s): Juan Fernando Martín Antolín

Number of participating researchers: 2

Funding body or bodies: Comissió Europea **Type of body:** R&D Centre

Start date: 01/01/2003 , 2 years

12 Name of the project: METAMORPHOSE: Metamaterials organized for radio, millimeter wave and photonic superlattice engineering

Project area: European Union

Your role in the project: Researcher

Body where project took place: Department of Electronic Engineering

City : Barcelona, Spain

Head(s) researcher(s): Sergei Tretyakov .

Number of participating researchers: 2

**Funding body or bodies:** Comissió Europea**Type of body:** R&D Centre**Start date:** 01/01/2003**Total amount:** 31.102**13 Name of the project:** FIT-330200-2004-113: Estudio y control de la propagación de microondas y de ondas milimétricas por metamateriales.**Project area:** National**Your role in the project:** Researcher**Body where project took place:** Department of Electronic Engineering**City :** Barcelona, Spain**Head(s) researcher(s):** Jose A. Marcotegui Itumendi**Number of participating researchers:** 2**Funding body or bodies:** Ministerio de Ciencia y Tecnología **Type of body:** R&D Centre**Start date:** 01/01/2003 , 1 year**Total amount:** 78.270**14 Name of the project:** Generación de frecuencias de terahertz mediante líneas de transmisión no lineales y dispositivos de vacío microfabricados en haces electrónicos.**Project area:** National**Your role in the project:** Researcher**Body where project took place:** Department of Electronic Engineering**City :** Barcelona, Spain**Head(s) researcher(s):** Juan Fernando Martín Antolín**Number of participating researchers:** 2**Funding body or bodies:** Ministerio de Ciencia y Tecnología **Type of body:** State agency**Start date:** 01/01/2001 , 3 years**Total amount:** 31.102**Participation in R&D&I contracts, agreements or projects, not the result of competitive bidding, with companies (or internally in them) and/or governments****1 Name of the project:** Electromagnetic Enhancement Robustness**Project type:** Industrial research**Project area:** European Union**Body where project took place:** Universitat Politècnica de Catalunya**City :** 08034 Barcelona, Catalonia Autonomous city,**Head researcher:** Raúl Fernández García**Number of participating researchers:** 4**Funding body:** Freescale Semiconductor**Type of body:** Business**Start date:** 01/04/2009 , 2 years**2 Name of the project:** Desarrollo de una herramienta CAD/CAE para la síntesis de componentes pasivos**Project type:** Industrial research**Project area:** National**Body where project took place:** UNIVERSITAT DE BARCELONA**Head researcher:** José María López-Villegas**Number of participating researchers:** 4**Funding body:** Banco Santander**Type of body:** Business**Start date:** 01/03/2008 , 1 year - 11 months - 27 days**Total amount:** 126.000



- 3** **Name of the project:** Transmisor Wibree de bajo consumo
Body where project took place: Department of Electronic Engineering
City : Barcelona, Spain
Head researcher: Ignasi Cairó Molins
Number of participating researchers: 2
Participating bodies: EPSON; Europe Electronics GmbH
Funding body: EPSON Europe Electronics GmbH **Type of body:** Body, others
Start date: 01/01/2006 , 2 years
Total amount: 10.000
- 4** **Name of the project:** Minituarización y optimización
Body where project took place: Department of Electronic Engineering
City : Barcelona, Spain
Head researcher: Juan Fernando Martín Antolín
Number of participating researchers: 2
Participating bodies: Universidad Autónoma de Barcelona
Funding body: CONATEL, S.L. **Type of body:** Body, others
Start date: 01/06/2005 , 6 months - 3 days
Total amount: 13.300
- 5** **Name of the project:** To develop a filter usable to Epson
Body where project took place: Department of Electronic Engineering
City : Barcelona, Spain
Head researcher: Juan Fernando Martín Antolín
Number of participating researchers: 2
Participating bodies: Universidad Autónoma de Barcelona
Funding body: EPSO; Europe Electronic GmbH **Type of body:** Body, others
Start date: 01/04/2005 , 8 months - 4 days
Total amount: 33.250
- 6** **Name of the project:** Análisis del comportamiento
Body where project took place: Department of Electronic Engineering
City : Barcelona, Spain
Head researcher: Juan Fernando Martín Antolín
Number of participating researchers: 2
Participating bodies: Universidad Autónoma de Barcelona
Funding body: Laboratorio de luz Síncrotron; Universidad Autónoma de Barcelona **Type of body:** Body, others
Start date: 01/02/2005 , 28 days
- 7** **Name of the project:** Apoyo científico y optimización de filtros
Body where project took place: Department of Electronic Engineering
City : Barcelona, Spain
Head researcher: Juan Fernando Martín Antolín
Number of participating researchers: 2
Participating bodies: Universidad Autónoma de Barcelona
Funding body: CONATEL S.L.; OMICRON CIRCUITS S.L. **Type of body:** Body, others
Start date: 01/01/2004 , 1 year - 1 day
Total amount: 22.500



- 8 Name of the project:** Apoyo científico y diseño
Body where project took place: Department of Electronic Engineering
City : Barcelona, Spain
Head researcher: Juan Fernando Martín Antolín
Number of participating researchers: 2
Participating bodies: Universidad Autónoma de Barcelona
Funding body: CONATEL, S.L.; OMICRON **Type of body:** Body, others
 CIRCUITS. S.L.
Start date: 01/01/2003 , 1 year
Total amount: 22.500

Results

Intellectual and industrial property. Know how and industrial secrets

- 1 Name:** Digital accumulator with configurable resolution and Sigma-Delta modulator comprising it
Description of qualities: Patent publicada. La data és la de publicació
Inventors / authors / obtainers: Ignacio Gil Galí; Xavier Redondo; Jofre Pallares; Francesc Serra; Lluís Teres; Ignasi Cairó; Kazuaki Tanaka
Patent holding body: SEIKO EPSON CORPORATION (Japón) EPSON-Barcelona Research Lab.
Application number: 08157419.6
Priority country: Japan
Date: 09/12/2009
- 2 Name:** Demodulator with post-processing circuit for BER improvement
Description of qualities: Patent publicada. La data és la de publicació
Inventors / authors / obtainers: Ignacio Gil Galí; Antonio López; Ramon Carvajal; Ignasi Cairó; Jesus Aguado; Lucia Acosta; Jaime Ramirez
Patent holding body: SEIKO EPSON CORPORATION (Japón) EPSON-Barcelona Research Lab.
Application number: 08102480.4
Priority country: United States of America
Date: 16/09/2009
- 3 Name:** Charge pump circuit and method
Description of qualities: Patent publicada, La data és la de publicació
Inventors / authors / obtainers: Ignacio Gil Galí; Xavier Navarro Redondo; Jofre Cuxart Pallarès; Serra Graells Francesc; Terés Terés Lluís; Cairó Molins Ignasi
Patent holding body: Seiko Epson Corporation
Application number: 08102476.2
Priority country: Japan
Date: 16/09/2009
Spain patent: NO **European patent:** NO
International non-EU patent: SI
- 4 Name:** Linear combiner
Description of qualities: Patent publicada. La data és la de publicació
Inventors / authors / obtainers: Ignacio Gil Galí; Cairó Molins Ignasi; López Martín Antonio; Jesús Aguado; Ramón Carvajal González; Lucía Acosta and Jaime Angulo Rodríguez



Patent holding body: Seiko Epson Corporation

Application number: 08102494.5

Priority country: Japan

Date: 16/09/2009

Spain patent: NO

European patent: NO

International non-EU patent: SI

5 Name: Zero-crossing detector for receiver

Description of qualities: Patent publicada. La data és la de publicació.

Inventors / authors / obtainers: Ignacio Gil Galí; López Martín Antonio; Ramón Carvajal González; Cairó Molins Ignasi; Amaya Goni and Trinidad Sanchez Rodriguez

Patent holding body: Seiko Epson Corporation

Application number: 08102486.1

Priority country: Japan

Date: 16/09/2009

Spain patent: NO

European patent: NO

International non-EU patent: SI

6 Name: Biasing circuit and method for voltage controlled oscillators

Description of qualities: Patent publicada. La data és la de publicació

Inventors / authors / obtainers: Ignacio Gil Galí; Xavier Navarro Redondo; Tanaka Kazuaki; Cairó Molins Ignasi; Terés Terés Lluís; Serra Graells and Jofre Pallarès Cuxart Francesc

Patent holding body: Seiko Epson Corporation

Application number: 08100629.8

Priority country: Japan

Date: 22/07/2009

Spain patent: NO

European patent: NO

International non-EU patent: SI

7 Name: Low noise amplifier and n-mode gain control circuit therefore

Description of qualities: Patent publicada. La data és la de publicació

Inventors / authors / obtainers: Ignacio Gil Galí; Ignasi Cairó

Patent holding body: Seiko Epson Corporation

Application number: 07117823.0

Priority country: Japan

Date: 08/04/2009

Spain patent: SI

European patent: NO

International non-EU patent: NO

8 Name: Low noise amplifier and mixer front-end circuit and method for gain control

Description of qualities: Patent publicada. La data és la de publicació

Inventors / authors / obtainers: José Luís González; Xavier Aragones Cervera; Mateo Diego; Ignacio Gil Galí; Tanaka Kazuaki

Patent holding body: Seiko Epson Corporation

Application number: 07117818.0

Priority country: Japan

Date: 08/04/2009

Spain patent: NO

European patent: NO

International non-EU patent: SI



- 9** **Name:** Double LC-tank structure
Description of qualities: Patent publicada. La data és la de publicació.
Inventors / authors / obtainers: Ignacio Gil Galí; Ignasi Cairó; Javier José Sieiro; Oriol Argemí
Patent holding body: SEIKO EPSON CORPORATION (Japón) EPSON-Barcelona Research Lab.
Application number: 07116601.1
Priority country: Japan
Date: 18/03/2009
- 10** **Name:** Ultra-low power consumption current-reused front-end for a RF system
Description of qualities: Patent publicada. La data és la de publicació
Inventors / authors / obtainers: Ignacio Gil Galí; Ignasi Cairó
Patent holding body: SEIKO EPSON CORPORATION (Japón) EPSON-Barcelona Research Lab
Application number: 07116606.0
Priority country: United States of America
Date: 18/03/2009
- 11** **Name:** Ultra-low power consumption low noise amplifier
Description of qualities: Patent publicada. La data és la de publicació
Inventors / authors / obtainers: Ignacio Gil Galí; Ignasi Cairó
Patent holding body: Seiko Epson Corporation
Application number: 07116605.2
Priority country: United States of America
Date: 18/03/2009
Spain patent: NO **European patent:** NO
International non-EU patent: SI
- 12** **Name:** Radio frequency circuit with electrostatic protection and impedace matching and method for calibrating the same
Inventors / authors / obtainers: Ignacio Gil Galí; Mateo Diego; José Luís González; Xavier Aragones Cervera; Roc Berenguer; Adin Íñigo; Ignasi Cairó Molins and Tanaka Kazuaki
Patent holding body: Seiko Epson Corporation
Application number: 08104871.2
Priority country: Japan
Date: 24/07/2008
Spain patent: NO **European patent:** NO
International non-EU patent: SI
- 13** **Name:** Líneas de transmisión artificiales zurdas
Inventors / authors / obtainers: Ignacio Gil Galí; Juan Fernando Martín Antolín; Jorge Bonache Albacete; Gil Barba Marta; Juan José García
Patent holding body: Universitat Autònoma de Barcelona
Application number: P200601386
Priority country: Spain
Date: 26/05/2006
Spain patent: SI **European patent:** NO
International non-EU patent: NO
- 14** **Name:** Band pass filter electronic device including said band pass filter and method of producing a band pass filter.
Inventors / authors / obtainers: Ignacio Gil Galí; Jorge Bonache Albacete; Juan José García; Gil Barba Marta; Juan Martín Antolín Fenrando



Patent holding body: Seiko Epson Co.

Application number: 06113833.5

Priority country: Japan

Date: 11/05/2006

Spain patent: NO

European patent: NO

International non-EU patent: SI

15 Name: Filtros planares de microondas y de ondas milimétricas con ancho de banda controlable basados en resonadores concentrados

Inventors / authors / obtainers: Ignacio Gil Galí; Jorge Boneche Albacete; Juan José García yGarcía y Juan Martín Antolín Fernando

Patent holding body: Universitat Autònoma de Barcelona

Application number: P200403095

Priority country: Spain

Date: 28/12/2004

Spain patent: SI

European patent: NO

International non-EU patent: NO

16 Name: Filtros planares de microondas y de ondas milimétricas basados en etapas acopladas que contienen resonadores de anillos abiertos.

Inventors / authors / obtainers: Ignacio Gil Galí; Jorge Bonache Albacete; Juan F Martín Antolín; Juan José García; Marqués Silvero Ricardo; Jesús Martel Vilagrán; y 6 más personas

Patent holding body: Universitat Autònoma de Barcelona

Application number: P200403096

Priority country: Spain

Date: 28/12/2004

Spain patent: SI

European patent: NO

International non-EU patent: NO

17 Name: Filtros y superficies selectivas en frecuencia

Inventors / authors / obtainers: Ignacio Gil Galí; Mario Aiza Sorolla; Miguel Díaz Berruete; Falcone Lanas Francisco; Ortíz Pérez de Eulate Noelia; Juan Baena Dorella Domingo; Marqués Ricardo; Juan F Martín Antolín; Jordi Bonache

Patent holding body: Universitat Autònoma de Barcelona

Application number: P200402064

Priority country: Spain

Date: 20/08/2004

Spain patent: SI

European patent: NO

International non-EU patent: NO



Scientific Activities and General Techniques

Scientific production

Publications, Scientific and Technical Documents and any other publication

- 1 Pérez, D.; Gil, I.; Gago, J.; Fernandez, R.; Balcells, J.; González, D.; Berbel, N.; Mon, J.Reduction of electromagnetic interference susceptibility in small-signal analog circuits using complementary split-ring resonators.IEEE TRANSACTIONS ON COMPONENTS, PACKAGING AND MANUFACTURING TECHNOLOGY.2 - 2,pp. 240 - 247.(United States of America): IEEE,10/02/2012 .Disponible en Internet en: <http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=6104123&tag=1>. ISSN 2156-3950

Type of production: Article **Type of platform:** Journal

Ranking among the total: 2
- 2 Mon, J.; Gago, J.; González, D.; Balcells, J.; Fernandez, R.; Gil, I.; Bogonez, F.EMI reduction by means of switching frequency modulation with variable delay in power supplies.International journal of electronics.99 - 1,pp. 103 - 112.01/2012 .ISSN 0020-7217

Type of production: Article **Type of platform:** Journal

Ranking among the total: 6 **Acting as:** Author or co-author of article in journal with external admissions assessment committee

Index measuring impact: 0.252 **Impact measuring agency:** ISI
- 3 Fernandez, R.; Gil, I.; Boyer, A.; BenDhia, S.; Vrignon, B.A new approach to modelling the impact of EMI on MOSFET DC behavior.IEICE transactions on electronics.E94-C - 12,pp. 1906 - 1908.12/12/2011 .Disponible en Internet en: <http://search.ieice.org/bin/summary.php?id=e94-c_12_1906&category=C&year=2011&lang=E&abst=>>. ISSN 0916-8524

Type of production: Article **Type of platform:** Journal

Ranking among the total: 2 **Acting as:** Author or co-author of article in journal with external admissions assessment committee

Index measuring impact: 0.469 **Impact measuring agency:** ISI
- 4 Berbel, N.; Fernandez, R.; Gil, I.; Li, B.; Boyer, A.; BenDhia, S.Experimental verification of the usefulness of the nth power law MOSFET model under hot carrier wearout.Microelectronics reliability.51 - 9-11 ,pp. 1564 - 1567.11/2011 .Disponible en Internet en: <<http://www.sciencedirect.com/science/article/pii/S002627141100240X>>. ISSN 0026-2714

Type of production: Article **Type of platform:** Journal

Ranking among the total: 3 **Acting as:** Author or co-author of article in journal with external admissions assessment committee

Index measuring impact: 1.066 **Impact measuring agency:** ISI
- 5 Gil, I.; Fernandez, R.; Balcells, J.Analysis and characterization of coupled transmission lines loaded with complementary spiral resonators.IET microwaves antennas and propagation.5 - 3,pp. 290 - 297.21/02/2011 .ISSN 1751-8725

Type of production: Article **Type of platform:** Journal

Ranking among the total: 1 **Acting as:** Author or co-author of article in journal with external admissions assessment committee

Index measuring impact: 1.077 **Impact measuring agency:** ISI



- 6** Morata, M.; Gil, I.; Fernandez, R. Modeling tunable band-pass filters based on RF-MEMS metamaterials. International journal of numerical modeling. Electronic networks devices and fields. 24 - 6, pp. 583 - 589. 01/02/2011. Disponible en Internet en: <<http://authorservices.wiley.com/bauthor/onlineLibraryTPS.asp?DOI=10.1002/jnm.808&ArticleID=817512>>. ISSN 0894-3370
- Type of production:** Article
Ranking among the total: 2
Index measuring impact: 0.354
- Type of platform:** Journal
Acting as: Author or co-author of article in journal with external admissions assessment committee
Impact measuring agency: ISI
- 7** Mon, J.; Gago, J.; González, D.; Balcells, J.; Fernandez, R.; Gil, I.; Bogonez, F. EMI Reduction in Parallel Multiconverter Topology Using Interleaving and Frequency Modulation Techniques. Przeglad elektrotechniczny. 10, pp. 239 - 243. 10/2010. Disponible en Internet en: <http://pe.org.pl/abstract_pl.php?nid=3322>. ISSN 0033-2097
- Type of production:** Article
Ranking among the total: 6
Index measuring impact: 0.242
- Type of platform:** Journal
Impact measuring agency: ISI
- 8** Gil, I.; Morata, M.; Fernandez, R.; Rottenberg, X.; De Raedt, W. Characterization and modelling of switchable stop-band filters based on RF-MEMS and complementary split ring resonators. Microelectronic engineering. 13/08/2010. ISSN 0167-9317
- Type of production:** Article
Ranking among the total: 1
Index measuring impact: 1.569
- Type of platform:** Journal
Acting as: Author or co-author of article in journal with external admissions assessment committee
Impact measuring agency: ISI
- 9** Gil, I.; Fernandez, R.; Gago, J.; Balcells, J. Multiband EMI filter based on metamaterials. IEICE electronics express. 7 - 9, pp. 563 - 568. 10/05/2010. Disponible en Internet en: <http://www.jstage.jst.go.jp/article/elex/7/9/7_563/_article>. ISSN 1349-2543
- Type of production:** Article
Ranking among the total: 1
Index measuring impact: 0.425
- Type of platform:** Journal
Acting as: Author or co-author of article in journal with external admissions assessment committee
Impact measuring agency: ISI
- 10** Gil, I.; Cairó, I.; Sieiro, J.J.; López-Villegas, J. Low-power current-reused RF front-end based on optimized transformers topology. Integration. The VLSI journal. 43 - 2, pp. 230 - 236. 04/2010. Disponible en Internet en: <http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6V1M-4XHM12D-1&_user=1517299&_coverDate=10%2F23%2F2009&_rdoc=1&_fmt=high&_>. ISSN 0167-9260
- Type of production:** Article
Ranking among the total: 1
Index measuring impact: 0.663
- Type of platform:** Journal
Acting as: Author or co-author of article in journal with external admissions assessment committee
Impact measuring agency: ISI
- 11** Berbel, N.; Fernandez, R.; Gil, I. Modelling and experimental verification of the impact of negative bias temperature instability on CMOS inverter. Microelectronics reliability. 49 - 9-11, pp. 1048 - 1051. 11/2009. ISSN 0026-2714
- Type of production:** Article
Ranking among the total: 3
Index measuring impact: 1.29
- Type of platform:** Journal
Acting as: Author or co-author of article in journal with external admissions assessment committee
Impact measuring agency: ISI



- 12** Bonache, J.; Falcone, F.; Gil, I.; García, J.; Martín, F. Application of electromagnetic bandgaps to microwave circuit design. Applications of metamaterials: handbook of artificial materials. pp. 1 - 22. Taylor and Francis Group, 31/07/2009 .ISBN 978-1420054231
Type of production: Chapters of books
Ranking among the total: 3
Type of platform: Book
Acting as: Author or co-author of chapter in book
- 13** Mon, J.; Gago, J.; González, D.; Balcells, J.; Fernandez, R.; Bogonez, F.; Gil, I. Modulation technique to reduce EMI in power multiconverters. IEICE electronics express. 6 - 8, pp. 511 - 515. 05/04/2009 . Disponible en Internet en: <http://www.jstage.jst.go.jp/article/elex/6/8/511/_pdf>. ISSN 1349-2543
Type of production: Article
Ranking among the total: 7
Type of platform: Journal
Acting as: Author or co-author of article in journal with external admissions assessment committee
Impact measuring impact: 0.51
Impact measuring agency: ISI
- 14** Gil, I.; Cairó, I.; Sieiro, J. Low-power single-to-differential LNA at S-band based on optimised transformer topology and integrated ESD. Electronics Letters. 44 - 3, pp. 198 - 199. Institution of Electrical Engineers, 01/2008 . Disponible en Internet en: <<http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=04446175>>. ISSN 0013-5194
Type of production: Article
Ranking among the total: 1
Type of platform: Journal
Index measuring impact: 1.14
Impact measuring agency: ISI
- 15** Gil, I.; Rottenberg, X.; Raedt, W.; Martín, F. Tunable stop-band filter at Q-band based on RF-MEMS metamaterials. Electronics Letters. 43 - 21, pp. 1153 - 1154. Institution of Electrical Engineers, 10/2007 . Disponible en Internet en: <http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=4349260>. ISSN 0013-5194
Type of production: Article
Ranking among the total: 1
Type of platform: Journal
Index measuring impact: 1.009
Impact measuring agency: ISI
- 16** Bonache, J.; Gil, I.; Garcia-Garcia, J.; Martin, F. Compact microstrip band-pass filters based on semi-lumped resonators. IET microwaves antennas and propagation. 1 - 4, pp. 932 - 936. 08/2007 .ISSN 1751-8733
Type of production: Article
Ranking among the total: 2
Type of platform: Journal
- 17** Gil, I.; Bonache, J.; García-García, J.; Martín, F. Miniaturisation of planar microwave circuits by using resonant-type left handed transmission lines. IET microwaves antennas and propagation. 1 - 1, pp. 73 - 79. 02/2007 .ISSN 1751-8733
Type of production: Article
Ranking among the total: 1
Type of platform: Journal
- 18** Gil, I.; Bonache, J.; García-García, J.; Martín, F. Metamaterial transmission lines with extreme impedance values. Microwave and optical technology letters. 48 - 12, pp. 2499 - 2506. 12/2006 .ISSN 0895-2477
Type of production: Article
Ranking among the total: 1
Type of platform: Journal
Acting as: Author or co-author of article in journal with external admissions assessment committee
Index measuring impact: 0.568
Impact measuring agency: ISI
- 19** Gil, I.; Bonache, J.; García-García, J.; Martín, F. Left-handed and right-handed transmission properties of microstrip lines loaded with complementary split rings resonators. Microwave and optical technology letters. 48 - 12, pp. 2508 - 2511. 12/2006 .ISSN 0895-2477
Type of production: Article
Ranking among the total: 1
Type of platform: Journal
Acting as: Author or co-author of article in journal with external admissions assessment committee
Index measuring impact: 0.568
Impact measuring agency: ISI



- 20** Gil, I.; Bonache, J.; García-García, J.; Martín, F.; Marqués, R. Accurate circuit analysis of resonant-type left handed transmission lines with inter-resonator coupling. *Journal of applied physics*. 100 - 7, pp. 1 - 10. American Institute of Physics (AIP), 10/2006 .ISSN 0021-8979
Type of production: Article
Ranking among the total: 1
Index measuring impact: 2.316
Type of platform: Journal
Acting as: Author or co-author of article in journal with external admissions assessment committee
Impact measuring agency: ISI
- 21** Bonache, J.; Gil, I.; Garcia-Garcia, J.; Martin, F. On the electrical characteristics of complementary metamaterial resonators. *IEEE microwave and wireless components letters*. 16 - 10, pp. 543 - 545. 10/2006 .ISSN 1531-1309
Type of production: Article
Ranking among the total: 2
Index measuring impact: 1.424
Type of platform: Journal
Acting as: Author or co-author of article in journal with external admissions assessment committee
Impact measuring agency: ISI
- 22** Bonache, J.; Gil, I.; García-García, J.; Martín, F. Complementary split rings resonators (CSRRs): Towards the miniaturization of microwave device design. *Journal of computational electronics*. 5 - 2-3 , pp. 193 - 197. 07/2006 .ISSN 1572-8137
Type of production: Article
Ranking among the total: 2
Type of platform: Journal
- 23** Martín, F.; Bonache, J.; García, J.; Gil, I.; Aznar, F. *Metamateriales, un nuevo concepto para el diseño de sistemas de comunicaciones*. Ediciones UPC, 30/06/2006 .ISBN B-39828-2006
Type of production: Book
Ranking among the total: 4
Type of platform: Book
Acting as: Author or co-author of entire book
- 24** Garcia-Garcia, J.; Bonache, J.; Gil, I.; Martin, F.; Velazquez-Ahumada, M.; Martel, J. Miniaturized microstrip and CPW filters using coupled metamaterial resonators. *IEEE transactions on microwave theory and techniques*. 54 - 6, pp. 2628 - 2635. IEEE Microwave Theory and Techniques Society, 06/2006 .ISSN 0018-9480
Type of production: Article
Ranking among the total: 3
Index measuring impact: 2.027
Type of platform: Journal
Acting as: Author or co-author of article in journal with external admissions assessment committee
Impact measuring agency: ISI
- 25** Gil, I.; Bonache, J.; Garcia-Garcia, J.; Martin, F. Tunable metamaterial transmission lines based on varactor-loaded split-ring resonators. *IEEE transactions on microwave theory and techniques*. 54 - 6, pp. 2665 - 2674. IEEE Microwave Theory and Techniques Society, 06/2006 .ISSN 0018-9480
Type of production: Article
Ranking among the total: 1
Index measuring impact: 2.027
Type of platform: Journal
Acting as: Author or co-author of article in journal with external admissions assessment committee
Impact measuring agency: ISI
- 26** Gil, I.; Bonache, J.; García-García, J.; Martín, F. On the transmission properties of left-handed microstrip lines implemented by complementary split rings resonators. *International journal of numerical modeling. Electronic networks devices and fields*. 19 - 2, pp. 87 - 103. 03/2006 .ISSN 0894-3370
Type of production: Article
Ranking among the total: 1
Index measuring impact: 0.486
Type of platform: Journal
Acting as: Author or co-author of article in journal with external admissions assessment committee
Impact measuring agency: ISI



- 27** Bonache, J.; Gil, I.; Garcia-Garcia, J.; Martin, F. Novel microstrip bandpass filters based on complementary split-ring resonators. IEEE transactions on microwave theory and techniques. 54 - 1, pp. 265 - 271. IEEE Microwave Theory and Techniques Society, 01/2006. ISSN 0018-9480
Type of production: Article
Ranking among the total: 2
Index measuring impact: 2.027
Type of platform: Journal
Acting as: Author or co-author of article in journal with external admissions assessment committee
Impact measuring agency: ISI
- 28** Bonache, J.; Martín, F.; Falcone, F.; Baena, J.; Lopetegi, T.; García-García, J.; Laso, M.; Gil, I.; Marcotegui, A.; Marqués, R.; Sorolla, M. Application of complementary split-ring resonators to the design of compact narrow band-pass structures in microstrip technology. Microwave and optical technology letters. 46 - 5, pp. 508 - 512. 09/2005. ISSN 0895-2477
Type of production: Article
Ranking among the total: 8
Index measuring impact: 0.467
Type of platform: Journal
Acting as: Author or co-author of article in journal with external admissions assessment committee
Impact measuring agency: ISI
- 29** Bonache, J.; Martín, F.; Gil, I.; García-García, J.; Marqués, R.; Sorolla, M. Microstrip bandpass filters with wide bandwidth and compact dimensions. Microwave and optical technology letters. 46 - 4, pp. 343 - 346. 08/2005. ISSN 0895-2477
Type of production: Article
Ranking among the total: 3
Index measuring impact: 0.467
Type of platform: Journal
Acting as: Author or co-author of article in journal with external admissions assessment committee
Impact measuring agency: ISI
- 30** Bonache, J.; Martín, F.; Marqués, R.; Sorolla, M.; Gil, I.; Gil I, J. Ultra wide band pass filters (UWBPF) based on complementary split rings resonators. Microwave and optical technology letters. 46 - 3, pp. 283 - 286. 08/2005. ISSN 0895-2477
Type of production: Article
Ranking among the total: 5
Index measuring impact: 0.467
Type of platform: Journal
Acting as: Author or co-author of article in journal with external admissions assessment committee
Impact measuring agency: ISI
- 31** Bonache, J.; Gil, I.; Garcia-Garcia, J.; Martin, F. Complementary split ring resonators for microstrip diplexer design. Electronics Letters. 41 - 14, pp. 810 - 811. Institution of Electrical Engineers, 07/2005. ISSN 0013-5194
Type of production: Article
Ranking among the total: 2
Index measuring impact: 1.016
Type of platform: Journal
Impact measuring agency: ISI
- 32** Bonache, J.; Martín, F.; Falcone, G.; García-García, J.; Gil, I.; Lopetegi, T.; Laso, M.; Marqués, R.; Medina, F.; Sorolla, M. Compact coplanar waveguide band-pass filter at the S-band. Microwave and optical technology letters. 46 - 1, pp. 33 - 35. 07/2005. ISSN 0895-2477
Type of production: Article
Ranking among the total: 5
Index measuring impact: 0.467
Type of platform: Journal
Acting as: Author or co-author of article in journal with external admissions assessment committee
Impact measuring agency: ISI
- 33** Garcia-Garcia, J.; Martin, F.; Falcone, F.; Bonache, J.; Baena, J.; Gil, I.; Amat, E.; Lopetegi, T.; Laso, M.; Iturmendi, J.; Sorolla, M.; Marques, R. Microwave filters with improved stopband based on sub-wavelength resonators. IEEE transactions on microwave theory and techniques. 53 - 6-2, pp. 1997 - 2005. IEEE Microwave Theory and Techniques Society, 06/2005. ISSN 0018-9480
Type of production: Article
Ranking among the total: 6
Type of platform: Journal



Index measuring impact: 2.275

Acting as: Author or co-author of article in journal with external admissions assessment committee

Impact measuring agency: ISI

- 34** Gil, I.; Bonache, J.; García-García, J.; Martín, F. Application of active electromagnetic bandgaps to the design of tunable resonators in CPW technology. Microwave and optical technology letters. 45 - 5, pp. 229 - 232. 05/2005 .ISSN 0895-2477

Type of production: Article

Ranking among the total: 1

Index measuring impact: 0.467

Type of platform: Journal

Acting as: Author or co-author of article in journal with external admissions assessment committee

Impact measuring agency: ISI

- 35** Martín, F.; García, J.; Bonache, J.; Gil, I. Seminar on Metamaterials and Circuit Design based on Split Rings Resonators. 22/04/2005 .

Type of production: Book

Ranking among the total: 4

Type of platform: Book

Acting as: Editor or co-editor

- 36** Baena, J.; Bonache, J.; Martín, F.; Sillero, R.; Falcone, F.; Lopetegi, T.; Laso, M.; García-García, J.; Gil, I.; Portillo, M.; Sorolla, M. Equivalent-circuit models for split-ring resonators and complementary split-ring resonators coupled to planar transmission lines. IEEE transactions on microwave theory and techniques. 53 - 4-2 ,pp. 1451 - 1461. IEEE Microwave Theory and Techniques Society, 04/2005 .ISSN 0018-9480

Type of production: Article

Ranking among the total: 9

Index measuring impact: 2.275

Type of platform: Journal

Acting as: Author or co-author of article in journal with external admissions assessment committee

Impact measuring agency: ISI

- 37** García-García, J.; Bonache, J.; Gil, I.; Martín, F.; Marqués, R.; Falcone, F.; Lopetegi, T.; Laso, M.; Sorolla, M. Comparison of electromagnetic bandgap and split-ring resonator microstrip lines as stop band structures. Microwave and optical technology letters. 44 - 4, pp. 376 - 379. 02/2005 .ISSN 0895-2477

Type of production: Article

Ranking among the total: 3

Index measuring impact: 0.467

Type of platform: Journal

Acting as: Author or co-author of article in journal with external admissions assessment committee

Impact measuring agency: ISI

- 38** Gil, I.; García-García, J.; Bonache, J.; Martín, F.; Sorolla, M.; Marqués, R. Varactor-loaded split rings resonators for tuneable notch filters at microwave frequencies. Electronics Letters. 40 - 21, pp. 1347 - 1348. Institution of Electrical Engineers, 10/2004 .ISSN 0013-5194

Type of production: Article

Ranking among the total: 1

Index measuring impact: 0.968

Type of platform: Journal

Impact measuring agency: ISI

- 39** García-García, J.; Martín, F.; Falcone, F.; Bonache, J.; Gil, I.; Lopetegi, T.; Laso, M.; Sorolla, M.; Marqués, R. Spurious passband suppression in microstrip coupled line band pass filters by means of split ring resonators. IEEE microwave and wireless components letters. 40 - 9, pp. 416 - 418. 09/2004 .ISSN 1531-1309

Type of production: Article

Ranking among the total: 5

Index measuring impact: 1.003

Type of platform: Journal

Acting as: Author or co-author of article in journal with external admissions assessment committee

Impact measuring agency: ISI

- 40** García-García, J.; Bonache, J.; Falcone, F.; Baena, J.; Martín, F.; Gil, I.; Lopetegi, T.; Laso, M.; Marcotegui, A.; Marqués, R.; Sorolla, M. Stepped-impedance low pass filters with spurious passband suppression. Electronics Letters. 40 - 14, pp. 881 - 883. Institution of Electrical Engineers, 07/2004 .ISSN 0013-5194

Type of production: Article

Type of platform: Journal

**Ranking among the total:** 6**Index measuring impact:** 0.968**Impact measuring agency:** ISI

- 41** Martín, F.; Bonache, J.; Gil, I.; Falcone, F.; Lopetegi, T.; Laso, M.; Sorolla, M. Compact spurious free CPW band pass filters based on electromagnetic bandgap structures. *Microwave and optical technology letters*. 40 - 2, pp. 146 - 148. 01/2004 .ISSN 0895-2477

Type of production: Article**Ranking among the total:** 3**Index measuring impact:** 0.456**Type of platform:** Journal**Acting as:** Author or co-author of article in journal with external admissions assessment committee**Impact measuring agency:** ISI

- 42** Gil, I. *IET Microwaves, Antennas & Propagation*. ISSN 1751-8725

Type of production: General interest journals**Acting as:** Editor or co-editor**Type of platform:** Journal

- 43** Gil, I. *Electronics Letters*. ISSN 0013-5194

Type of production: General interest journals**Acting as:** Editor or co-editor**Type of platform:** Journal

Work presented in conferences at the national or international level

- 1** **Title:** An alternative approach to model the internal activity of integrated circuits.
Name of the conference: EMC Compo 2011
Your role: Speaker **Appearance as:** Review before acceptance
City of the publishing body: Dubrovnik, Croatia
Date of the event: 2012
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
 Berbel, N.; Fernandez, R.; Gil, I.; Li, B.; BenDhia, S.; Boyer, A. "An alternative approach to model the internal activity of integrated circuits.". En: *Proceedings of EMC COMPO 2011*. 0007.
- 2** **Title:** Experimental verification of the usefulness of the n-th power law MOSFET model under hot carrier wearout
Name of the conference: 22nd ESREF
Your role: Speaker **Appearance as:** Open access
Date of the event: 2011
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
 Berbel, N.; Fernandez, R.; Gil, I.; Li, B.; Boyer, A.; BenDhia, S. "Experimental verification of the usefulness of the n-th power law MOSFET model under hot carrier wearout". En: *Proceeding 22nd European Symposium on Reliability of Electron Devices, Failure Physics and Analysis*. 0010.
- 3** **Title:** Ring oscillator switching noise under NBTI wearout
Name of the conference: EMC Europe 2011
Your role: Speaker **Appearance as:** Open access
City of the publishing body: York, United Kingdom
Date of the event: 2011
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
 Fernandez, R.; Gil, I.; Ruiz, J.M.; Morata, M. "Ring oscillator switching noise under NBTI wearout". En: *Proceedings EMC Europe 2011*. pp. 294 - 297. 0009. ISBN 978-0-9541146-3-3



- 4** **Title:** Characterization and modeling of the electromagnetic emission of an ADC converter
Name of the conference: PIERS 2011
Field of the conference: Non EU International
Your role: Poster **Appearance as:** Open access
City of the publishing body: Marrakesh, Morocco
Date of the event: 2011
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Berbel, N.; Fernandez, R.; Gil, I."Characterization and modeling of the electromagnetic emission of an ADC converter".En: *Progress In Electromagnetics Research Symposium Proceedings*. 0003.ISBN 978-1-934142-16-5
- 5** **Title:** Reconfigurable RF-MEMS Metamaterials Filters
Name of the conference: PIERS 2011
Field of the conference: Non EU International
Your role: Poster **Appearance as:** Open access
City of the publishing body: Marrakesh, Morocco
Date of the event: 2011
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Gil, I.; Morata, M.; Fernandez, R.; Rottenberg, X.; De Raedt, W."Reconfigurable RF-MEMS Metamaterials Filters".En: *Progress In Electromagnetics Research Symposium Proceedings*. pp. 1239 - 1242.0003.ISBN 978-1-934142-16-5
- 6** **Title:** Electromagnetic compatibility of CMOS circuits along the lifetime
Name of the conference: PIERS 2011
Field of the conference: Non EU International
Your role: Poster **Appearance as:** Open access
City of the publishing body: Marrakesh, Morocco
Date of the event: 2011
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Fernandez, R.; Ruiz, J.M.; Gil, I.; Morata, M."Electromagnetic compatibility of CMOS circuits along the lifetime".En: *Progress In Electromagnetics Research Symposium Proceedings*. pp. 1235 - 1238.0003.ISBN 978-1-934142-16-5
- 7** **Title:** Optimized passive devices for low-power LNA design
Name of the conference: IEEE International Conference on Electronics, Circuits and Systems 2010
Your role: Speaker **Appearance as:** Open access
Date of the event: 2010
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Gil, I.; Fernandez, R.; Sieiro, J.; López-Villegas, J."Optimized passive devices for low-power LNA design".En: *Proceedings of IEEE International Conference on Electronics, Circuits and Systems 2010*. pp. 90 - 93.0013.
- 8** **Title:** Diseño de cabezales de RF para aplicaciones wireless de bajo consumo
Name of the conference: XV Jornadas de Conferencias en Ingeniería Electrónica
Your role: Speaker **Appearance as:** Review before acceptance
Date of the event: 2010
Publication in conference minutes: SI **External admission assessment committee:** SI



Type: Scientific and technical document or report

Gil, I. "Diseño de cabezales de RF para aplicaciones wireless de bajo consumo". En: *XV Jornadas de Conferencias en Ingeniería Electrónica*. pp. 1 - 4.0003.

- 9** **Title:** An alternative characterization method of PFET sub-threshold slope under NBTI stress
Name of the conference: 40th European Solid-State Device Research Conference
Your role: Poster **Appearance as:** Open access
City of the publishing body: Sevilla, Spain
Date of the event: 2010
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Fernandez, R.; Gil, I. "An alternative characterization method of PFET sub-threshold slope under NBTI stress". En: *Proceedings ESSDERC 2010*. pp. 0 - 0.0009.
- 10** **Title:** Characterization of wearout mechanisms on MOSFET behavior
Name of the conference: MOS-AK/GSA
Your role: Poster **Appearance as:** Open access
City of the publishing body: Sevilla, Spain
Date of the event: 2010
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Fernandez, R.; Gil, I. "Characterization of wearout mechanisms on MOSFET behavior". En: *Website MOS Modeling and Parameter Extraction Group*. pp. 0 - 0.0009.
- 11** **Title:** Comparison between complementary split ring resonators and electromagnetic band-gap as EMI reduction structures
Name of the conference: Proceedings of the European Symposium on Electromagnetic Compatibility
Your role: Speaker **Appearance as:** Open access
City of the publishing body: Wroclaw, Poland
Date of the event: 2010
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Gil, I.; Fernandez, R. "Comparison between complementary split ring resonators and electromagnetic band-gap as EMI reduction structures". En: *Proceedings of the European Symposium on Electromagnetic compatibility*. pp. 0 - 0.
- 12** **Title:** Impact of NBTI on EMC behaviours of CMOS inverter
Name of the conference: Proceedings of the Asia-Pacific International Symposium on Electromagnetic Compatibility- EMC-ZURICH
Field of the conference: Non EU International
Your role: Speaker **Appearance as:** Open access
Date of the event: 2010
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Fernandez, R.; Berbel, N.; Gil, I.; Morata, M. "Impact of NBTI on EMC behaviours of CMOS inverter". En: *Proceedings of the Asia-Pacific International Symposium on Electromagnetic Compatibility- EMC-ZURICH*. pp. 1031 - 1034.0015.
- 13** **Title:** Low-power RF front-end design for wireless applications
Name of the conference: XIV Jornadas de Conferencias en Ingeniería Electrónica
Your role: Others **Appearance as:** Open access
Date of the event: 2009



Publication in conference minutes: SI

External admission assessment committee: SI

Type: Scientific and technical document or report

Gil, I."Low-power RF front-end design for wireless applications".En: *XIV Jornadas de Conferencias en Ingeniería Electrónica*. pp. 0 - 0.0003.

14 Title: Contribution to conducted EMI reduction in multiconverter topology

Name of the conference: 35th Annual Conference of the IEEE Industrial Electronics Society

Your role: Speaker

Appearance as: Open access

City of the publishing body: Porto, Portugal

Date of the event: 2009

Publication in conference minutes: SI

External admission assessment committee: SI

Type: Scientific and technical document or report

Mon, J.; González, D.; Gago, J.; Balcells, J.; Fernandez, R.; Gil, I."Contribution to conducted EMI reduction in multiconverter topology".En: *Proceedings*. pp. 4122 - 4127.0011.

15 Title: EMC filter based on complementary split-ring resonators for audio applications

Name of the conference: EMC Compo 2009

Your role: Poster

Appearance as: Open access

City of the publishing body: Toulouse,

Date of the event: 2009

Publication in conference minutes: SI

External admission assessment committee: SI

Type: Scientific and technical document or report

Gil, I.; Fernandez, R.; Pous, M.; Silva, F."EMC filter based on complementary split-ring resonators for audio applications".En: *Proceeding EMC compo*. pp. 0 - 0.0011.

16 Title: Modelling and experimental verification of the impact of negative bias temperature instability on CMOS inverter

Name of the conference: 20th European Symposium on Reliability of Electron Devices, Failure physics and analysis

Your role: Poster

Appearance as: Open access

City of the publishing body: Arcachon,

Date of the event: 2009

Publication in conference minutes: SI

External admission assessment committee: SI

Type: Scientific and technical document or report

Berbel, N.; Fernandez, R.; Gil, I."Modelling and experimental verification of the impact of negative bias temperature instability on CMOS inverter".En: *ESREF 2009*. pp. 1048 - 1051.0010.

17 Title: Characterization of EMI filters based on metamaterials

Name of the conference: EMC Europe 2009. Materials in EMC applications

Field of the conference: Non EU International

Your role: Poster

Appearance as: Open access

City of the publishing body: Atenas, Greece

Date of the event: 2009

Publication in conference minutes: SI

External admission assessment committee: SI

Type: Scientific and technical document or report

Gil, I.; Fernandez, R.; Vives, Y.; Jauregui, R.; Silva, F."Characterization of EMI filters based on metamaterials".En: *Proceeding EMC Europe workshop*. pp. 1 - 3.0006.

18 Title: Reduction of EMI by Combining Interleaving and Modulation Techniques in Multiconverter Topology

Name of the conference: Compatibility and Power Electronics

City of the publishing body: Badajoz, Spain

Date of the event: 2009



Publication in conference minutes: SI

External admission assessment committee: SI

Type: Scientific and technical document or report

Mon, J.; Gago, J.; González, D.; Balcells, J.; Fernandez, R.; Gil, I. "Reduction of EMI by Combining Interleaving and Modulation Techniques in Multiconverter Topology". En: *Compatibility and Power Electronics, 2009. CPE'09*. pp. 353 - 358. ISBN 9781424428564

19 Title: A new switching frequency modulation scheme for EMI reduction in multiconverter topology

Name of the conference: 13th European Conference on Power Electronics and Applications

Your role: Speaker

Appearance as: Open access

City of the publishing body: Barcelona, Spain

Date of the event: 2009

Publication in conference minutes: SI

External admission assessment committee: SI

Type: Scientific and technical document or report

Mon, J.; Gago, J.; González, D.; Balcells, J.; Fernandez, R.; Gil, I. "A new switching frequency modulation scheme for EMI reduction in multiconverter topology". En: *EPE 2009 Conference CD*. pp. 1 - 8.0009. ISBN 9789075815009

20 Title: Introducción a los metamateriales: aplicación al diseño de sistemas de comunicación

Name of the conference: Jornadas de Conferencias en Ingeniería Electrónica

Type of event: Workshop

City of the publishing body: Terrassa, Spain

Date of the event: 2008

Publication in conference minutes: SI

External admission assessment committee: SI

Type: Scientific and technical document or report

Gil, I. "Introducción a los metamateriales: aplicación al diseño de sistemas de comunicación". En: *Jornadas de Conferencias en Ingeniería Electrónica*. pp. 1 - 37. UPC,

21 Title: RF-MEMS metamaterials: application to high-performance tunable stop-band filters

Name of the conference: Second STIMESI Workshop on MEMS and Microsystems Research and Teaching

Type of event: Workshop

City of the publishing body: Berlín, Germany

Date of the event: 2008

Publication in conference minutes: SI

External admission assessment committee: SI

Type: Scientific and technical document or report

Gil, I.; Rottenberg, X.; Raedt, W.; Martin, F. "RF-MEMS metamaterials: application to high-performance tunable stop-band filters". En: *Second STIMESI Workshop on MEMS and Microsystems Research and Teaching*. pp. 56 - 65. IMEC,

22 Title: Compact Rat-Race Hybrid based on Complementary Split rings Resonators

Name of the conference: Progress in Electromagnetic Research Symposium

Type of event: Workshop

City of the publishing body: Beijing, China

Date of the event: 2007

Publication in conference minutes: SI

External admission assessment committee: SI

Type: Scientific and technical document or report

Sisó, G.; Bonache, J.; Gil, I.; García-García, J.; Martín, F. "Compact Rat-Race Hybrid based on Complementary Split rings Resonators". En: *Progress in Electromagnetic Research Symposium Proceedings*. pp. 480 - 482. The Electromagnetics Academy, ISBN 978-1-934142-00-4



- 23** **Title:** Compact metamaterial Rat-Race Hybrid
Name of the conference: Young Scientist Meeting on Metamaterials
City of the publishing body: Sevilla, Spain
Date of the event: 2006
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Sisó, G.; Bonache, J.; Gil, I.; García-García, J.; Martín, F."Compact metamaterial Rat-Race Hybrid".En: *Proceedings of the Young Scientist meeting on Metamaterials*. pp. 0 - 0.Universidad de Sevilla,
- 24** **Title:** Recent advances in resonant-type metamaterial transmission lines for planar filter design
Name of the conference: International Workshop on Microwave Filters
Type of event: Workshop
City of the publishing body: Toulouse, France
Date of the event: 2006
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Bonache, J.; Gil, I.; García-García, J.; Martín, F."Recent advances in resonant-type metamaterial transmission lines for planar filter design".En: *International Workshop on Microwave Filters*. pp. 0 - 0.CNES, ESA,
- 25** **Title:** Wideband band pass filter design using coupling coefficients between sub-wavelength resonators
Name of the conference: International Workshop on Microwave Filters
Type of event: Workshop
City of the publishing body: Toulouse, France
Date of the event: 2006
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
García-García, J.; Bonache, J.; Gil, I.; Martín, F."Wideband band pass filter design using coupling coefficients between sub-wavelength resonators".En: *International Workshop on Microwave Filters*. pp. 0 - 0.CNES, ESA,
- 26** **Title:** Metamaterial transmission lines based on complementary split rings resonators: design and applications
Name of the conference: Mediterranean Microwave Symposium
Type of event: Workshop
City of the publishing body: Genova, Spain
Date of the event: 2006
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Gil, I.; Bonache, J.; García-García, J.; Martín, F."Metamaterial transmission lines based on complementary split rings resonators: design and applications".En: *6th Mediterranean Microwave Symposium*. pp. 24 - 27.Italian Electromagnetics Society,
- 27** **Title:** Applications of Right/Left Handed and Resonant Left Handed Transmission Lines for Microwave Circuit Design
Name of the conference: 36th European Microwave Integrated Circuits Conference
City of the publishing body: Manchester, UK, United Kingdom
Date of the event: 2006
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Vendik, I.; Kholodnyak, D.; Kolmakova, I.; Serbryakova, E.; Kapitanova, P.; Martin, F.; Bonache, J.; Garcia, J.; Gil, I."Applications of Right/Left Handed and Resonant Left Handed Transmission Lines for Microwave



Circuit Design".En: *Proceedings of the 36th European Microwave Conference*. pp. 955 - 958.European Microwave Association, ISBN 2-9600551-6-0

- 28** **Title:** Super Compact (<1cm²) Band Pass Filters with Wide Bandwidth and High Selectivity at C-band
Name of the conference: 36th European Microwave Integrated Circuits Conference
City of the publishing body: Manchester, UK, United Kingdom
Date of the event: 2006
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Bonache, J.; Mattel, J.; Gil, I.; Garcia-Garcia, J.; Martin, F.; Cairo, I.; Ikeda, M."Super Compact (<1cm²) Band Pass Filters with Wide Bandwidth and High Selectivity at C-band ".En: *Proceedings of the 36th European Microwave Conference*. pp. 599 - 602.European Microwave Association, ISBN 2-9600551-6-0
- 29** **Title:** Artificial Left-handed Transmission Lines for Small Size Microwave Components: Application to Power Dividers
Name of the conference: 36th European Microwave Integrated Circuits Conference
City of the publishing body: Manchester, UK, United Kingdom
Date of the event: 2006
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Gil, I.; Bonache, J.; Garcia-Garcia, J.; Martin, F."Artificial Left-handed Transmission Lines for Small Size Microwave Components: Application to Power Dividers".En: *Proceedings of the 36th European Microwave Conference*. pp. 1135 - 1138.European Microwave Association, ISBN 2-9600551-6-0
- 30** **Title:** Metamaterial transmission lines based on complementary split rings resonators: a review
Name of the conference: Progress in Electromagnetic Research Symposium
Type of event: Workshop
City of the publishing body: Tokyo, Japan
Date of the event: 2006
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Gil, I.; Bonache, J.; García, J.; Martín, F."Metamaterial transmission lines based on complementary split rings resonators: a review".En: *Progress In Electromagnetics Research Symposium*. pp. 14 - 14.The Electromagnetics Academy., ISBN 1-933077-10-7
- 31** **Title:** Microwave circuit applications of resonant type left handed lines based on complementary split rings resonators
Name of the conference: Progress in Electromagnetic Research Symposium
Type of event: Workshop
City of the publishing body: Tokyo, Japan
Date of the event: 2006
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Gil, I.; Bonache, J.; García, J.; Martín, F."Microwave circuit applications of resonant type left handed lines based on complementary split rings resonators".En: *Progress In Electromagnetics Research Symposium*. pp. 27 - 27.The Electromagnetics Academy., ISBN 1-933077-10-7
- 32** **Title:** Limitations and Solutions of Resonant-Type Metamaterial Transmission Lines for Filter Applications: the Hybrid Approach
Name of the conference: IEEE International Microwave Symposium
City of the publishing body: San Francisco, California, United States of America
Date of the event: 2006



Publication in conference minutes: SI

External admission assessment committee: SI

Type: Scientific and technical document or report

Bonache, J.; Gil, I.; Garcia-Garcia, J.; Martin, F. "Limitations and Solutions of Resonant-Type Metamaterial Transmission Lines for Filter Applications: the Hybrid Approach". En: *IEEE MTT-S International Microwave Symposium digest 2006*. pp. 939 - 942. IEEE, ISBN 0-7803-9542-5

33 Title: Modelling complementary-split-rings-resonator (CSRR) left-handed lines with inter-resonator's coupling

Name of the conference: 13th IEEE Mediterranean Electrotechnical Conference

City of the publishing body: Benalmadena, Malaga, Spain

Date of the event: 2006

Publication in conference minutes: SI

External admission assessment committee: SI

Type: Scientific and technical document or report

Gil, I.; Bonache, J.; García, J.; Martín, F.; Marqués, R. "Modelling complementary-split-rings-resonator (CSRR) left-handed lines with inter-resonator's coupling". En: *Electronic Proceedings 13th IEEE Mediterranean Electrotechnical Conference*. pp. 225 - 228. IEEE, ISBN 1 4244 0088 0

34 Title: Metamaterial transmission lines with extreme impedance values

Name of the conference: 3rd Workshop on Metamaterials and Special Materials for Electromagnetic and TLC Applications

City of the publishing body: Roma, Italy

Date of the event: 2006

Publication in conference minutes: SI

External admission assessment committee: SI

Type: Scientific and technical document or report

Gil, I.; Bonache, J.; García-García, J.; Martín, F. "Metamaterial transmission lines with extreme impedance values". En: *3rd Workshop on Metamaterials and Special Materials for Electromagnetic and TLC Applications*. pp. 34 - 34. IEEE,

35 Title: On the left handed and right handed transmission properties of microstrip lines loaded with complementary split rings resonators

Name of the conference: 3rd Workshop on Metamaterials and Special Materials for Electromagnetic and TLC Applications

City of the publishing body: Roma, Italy

Date of the event: 2006

Publication in conference minutes: SI

External admission assessment committee: SI

Type: Scientific and technical document or report

Gil, I.; Bonache, J.; García, J.; Martín, F. "On the left handed and right handed transmission properties of microstrip lines loaded with complementary split rings resonators". En: *3rd Workshop on Metamaterials and Special Materials for Electromagnetic and TLC Applications*. pp. 33 - 33. IEEE,

36 Title: Microwave applications of left/right-handed transmission lines

Name of the conference: Progress in Electromagnetic Research Symposium

Type of event: Workshop

City of the publishing body: Cambridge, Massachusetts, United States of America

Date of the event: 2006

Publication in conference minutes: SI

External admission assessment committee: SI

Type: Scientific and technical document or report

Vendik, I.; Vendik, O.; Kholodnyak, D.; Zubko, S.; Kolmakov, I.; Kolmakova, I.; Serebryakova, E.; Nefedov, I.; Tretyakov, S.; Martín, F.; Bonache, J.; García-García, J.; Gil, I. "Microwave applications of left/right-handed transmission lines". En: *PIERS2006 in Cambridge Abstracts proceedings*. pp. 11 - 11. The Electromagnetics Academy, ISBN 1-933077-09-3



- 37** **Title:** Efficient area reduction in microstrip cross-coupled resonator filters by using split rings resonators and spiral resonators
Name of the conference: European Microwave Conference
City of the publishing body: Paris, France
Date of the event: 2005
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
García-García, J.; Bonache, J.; Gil, I.; Martín, F.; Velázquez-Ahumada, M.; Martel, J."Efficient area reduction in microstrip cross-coupled resonator filters by using split rings resonators and spiral resonators".En: *IEEE European Microwave Conference*. pp. 1235 - 1238.IEEE,
- 38** **Title:** Tunable split rings resonators for reconfigurable metamaterial transmission lines
Name of the conference: European Microwave Conference
City of the publishing body: Paris, France
Date of the event: 2005
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Gil, I.; Bonache, J.; García-García, J.; Martín, F.; Marqués, R."Tunable split rings resonators for reconfigurable metamaterial transmission lines".En: *IEEE European Microwave Conference*. pp. 905 - 908.IEEE,
- 39** **Title:** New quasi-lumped resonators for compact microstrip filter design
Name of the conference: European Microwave Conference
City of the publishing body: Paris, France
Date of the event: 2005
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Bonache, J.; Gil, I.; García-García, J.; Martín, F."New quasi-lumped resonators for compact microstrip filter design".En: *IEEE European Microwave Conference*. pp. 13 - 16.IEEE,
- 40** **Title:** Diseño de filtros de microondas mediante metamateriales
Name of the conference: XX Simposio Nacional de la Unión Científica Internacional de Radio
Type of event: Workshop **Field of the conference:** National
City of the publishing body: Gandia, Spain
Date of the event: 2005
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
García-García, J.; Bonache, J.; Gil, I.; Martín, F."Diseño de filtros de microondas mediante metamateriales".En: *Análisi de prestaciones de la red EPON mediante OPNET*. pp. 0 - 0.EDITORIAL DE LA UPV, ISBN 84-9705-859-3
- 41** **Title:** Microwave diplexer based on complementary split rings resonatros
Name of the conference: Antennas and Propagation Society Symposium
Type of event: Workshop
City of the publishing body: Washington D.C., United States of America
Date of the event: 2005
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Bonache, J.; Gil, I.; García-García, J.; Jarauta, E.; Martín, F."Microwave diplexer based on complementary split rings resonatros".En: *IEEE Antennas and propagation society symposium*. pp. 0 - 0.IEEE,



- 42** **Title:** Metamaterials in microstrip technology for filter applications
Name of the conference: Antennas and Propagation Society Symposium
Type of event: Workshop
City of the publishing body: Washington D.C., United States of America
Date of the event: 2005
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Gil, I.; Bonache, J.; Garcia-Garcia, J.; Falcone, F.; Martin, F."Metamaterials in microstrip technology for filter applications".En: *IEEE Antennas and propagation society symposium*. pp. 668 - 671.IEEE,
- 43** **Title:** Band pass filters for ultra wideband systems
Name of the conference: Antennas and Propagation Society Symposium
Type of event: Workshop
City of the publishing body: Washington D.C., United States of America
Date of the event: 2005
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Bonache, J.; Gil, I.; Garcia-Garcia, J.; Martin, F.; Marques, R.; Sorolla, M."Band pass filters for ultra wideband systems".En: *IEEE Antennas and propagation society symposium*. pp. 639 - 642.IEEE,
- 44** **Title:** Complementary split rings resonators: towards the miniaturization of microwave device design
Name of the conference: Workshop on Modelling and Simulation of Electron Devices
City of the publishing body: Pisa, Italy
Date of the event: 2005
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Bonache, J.; Gil, I.; García-García, J.; Martín, F."Complementary split rings resonators: towards the miniaturization of microwave device design".En: *Proceedings of Workshop on Modelling and Simulation of Electron Devices*. pp. 47 - 48.Workshop on Modelling and Simulation of Electron Devices,
- 45** **Title:** Microwave circuit design by using metamaterial concepts
Name of the conference: International Symposium on Photonic & Electromagnetic Crystal Structures
City of the publishing body: Aghia Pelaghia, Greece
Date of the event: 2005
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Bonache, J.; Gil, I.; García-García, J.; Martín, F."Microwave circuit design by using metamaterial concepts".En: *Technical Digest of the International Symposium on Photonic & Electromagnetic Crystal Structures*. pp. 0 - 0.- ,
- 46** **Title:** Evolution of metamaterial structures in planar technology
Name of the conference: International Seminar on Metamaterials and Circuit Design based on Split Rings Resonators
Type of event: RDC
City of the publishing body: Barcelona, Spain
Date of the event: 2005
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Falcone, F.; Bonache, J.; Baena, J.; Gil, I.; Lopetegi, T.; Laso, M.; Beruete, M.; García-García, J.; Marqués, R.; Martín, F.; Sorolla, M."Evolution of metamaterial structures in planar technology".En: *Proceedings of the International Seminar on Metamaterials and Circuit Design based on Split Rings Resonators*. pp. 0 - 0.GEMMA (Grup of the Universitat Autònoma de Barcelona),



- 47** **Title:** Tunable single negative (SNG) metamaterials
Name of the conference: LATSIS Symposium
Type of event: Workshop
City of the publishing body: Laussane, Switzerland
Date of the event: 2005
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Gil, I.; Bonache, J.; García-García, J.; Martín, F.; Marqués, R. "Tunable single negative (SNG) metamaterials". En: *EPFL LATSIS Symposium 2005*. pp. 90 - 90. École Polytechnique Fédérale de Lausanne,
- 48** **Title:** Split rings resonators: key particles for microwave device design
Name of the conference: 2005 Spanish Conference on Electron Devices (CDE 2005)
City of the publishing body: Tarragona, Spain
Date of the event: 2005
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Gil, I.; Gil I, J.; García-García, J.; Falcone, F.; Lopetegi, T.; Laso, M.; Baena, J.; Martín, F.; Sorolla, M.; Marqués, R. "Split rings resonators: key particles for microwave device design". En: *2005 SPANISH CONFERENCE ON ELECTRON DEVICES*. pp. 0 - 0. IEEE, ISBN 0-7803-8811-9
- 49** **Title:** Planar microwave filters based on metamaterials
Name of the conference: First Workshop of the Metamorphose network of excellence
City of the publishing body: Louvain-la-neuve , Belgium
Date of the event: 2004
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Bonache, J.; Gil, I.; García-García, J.; Martín, F. "Planar microwave filters based on metamaterials". En: *Metamorphose Network of Excellence 2004*. pp. 0 - 0. Metamorphose Network of Excellence,
- 50** **Title:** Spurious pass band suppression in microwave filters by means of sub-wavelength resonant structures
Name of the conference: European Microwave Conference
City of the publishing body: Amsterdam, Holland
Date of the event: 2004
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
García-García, J.; Bonache, J.; Falcone, F.; Gil, I.; Baena, J.; Lopetegui, T.; Laso, M.; Martín, F.; Marqués, R.; Marcotegui, A.; Sorolla, M. "Spurious pass band suppression in microwave filters by means of sub-wavelength resonant structures". En: *34th European Microwave Conference 2004 : conference proceedings*. pp. 577 - 580. Horizon House, ISBN 9781580539920
- 51** **Title:** Split ring resonator-based metamaterials in microwave planar circuits
Name of the conference: Bianisotropics 2004 - 10th Conference on Complex Media and Metamaterials
City of the publishing body: Ghent, Belgium
Date of the event: 2004
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Falcone, F.; Martín, F.; Bonache, J.; Baena, J.; Gómez-Laso, L.; García-García, J.; Gil, I.; Marcotegui, J.; Marqués, R.; Sorolla, M. "Split ring resonator-based metamaterials in microwave planar circuits". En: *Proceedings of Bianisotropics 2004, 10th Conference on Complex Media and Metamaterials*. pp. 264 - 267. Conference on Complex Media and Metamaterials, ISBN 9-07-6546-053



- 52** **Title:** Tunable and spiroous free photonic bandgap filters in planar technology
Name of the conference: International Workshop on Microwave Filters
Type of event: Workshop
City of the publishing body: Toulouse, France
Date of the event: 2004
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Gil, I.; Bonache, J.; García, J.; Martín, F."Tunable and spiroous free photonic bandgap filters in planar technology".En: *Proceedings of the International Workshop on Microwave Filters*. pp. 0 - 0.CNES-ESA ,
- 53** **Title:** Miniaturization of planar microwave filters by means of sub-wavelength resonators
Name of the conference: International Workshop on Microwave Filters
Type of event: Workshop
City of the publishing body: Toulouse, France
Date of the event: 2004
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Bonache, J.; Martín, F.; Falcone, F.; Baena, J.; Lopetegi, T.; García-García, J.; Gil, I.; Laso, M.; Sorolla, M.; Marqués, R.; Marcotegui, A."Miniaturization of planar microwave filters by means of sub-wavelength resonators".En: *Proceedings of the International Workshop on Microwave Filters*. pp. 0 - 0.CNES-ESA ,
- 54** **Title:** Metamaterial microstrip backward couplers for fully planar fabrication techniques
Name of the conference: Conference Digest of the 2004 Joint 29th International Conference on Infrared and Millimeter Waves (IRMMW) and 12th International Conference on Terahertz Electronics
City of the publishing body: Karlsruhe, Germany
Date of the event: 2004
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Jarauta, E.; Laso, M.; Lopetegi, T.; Falcone, F.; Beruete, J.; Baena, J.; Bonache, J.; Gil, I.; García-García, J.; Marcotegui, A.; Martín, F.; Marqués, R.; Sorolla, M."Metamaterial microstrip backward couplers for fully planar fabrication techniques".En: *34th European Microwave Conference 2004 : conference proceedings*. pp. 185 - 186.Horizon House, ISBN 0-7803-8490-3
- 55** **Title:** Metamaterial structures in coplanar waveguide technology
Name of the conference: International Symposium in Antennas and Propagation
Type of event: Workshop
City of the publishing body: Sendai, Japan
Date of the event: 2004
Publication in conference minutes: SI **External admission assessment committee:** SI
Type: Scientific and technical document or report
Falcone, F.; Martín, F.; Bonache, J.; Baena, J.; Lopetegi, T.; Laso, M.; García, J.; Gil, I.; Marcotegui, J.; Marqués, R.; Sorolla, M."Metamaterial structures in coplanar waveguide technology".En: *Proceedings of the 2004 IEEE Antennas and Propagation Society International Symposium*. pp. 461 - 464.IEEE, ISBN 0-7803-8303-6
- 56** **Title:** Metamaterial configurations in coplanar waveguide technology
Name of the conference: IEEE INTERNATIONAL ANTENNAS AND PROPAGATION SYMPOSIUM (AP-S)
Type of event: Workshop
City of the publishing body: Monterey (California), United States of America
Date of the event: 2004
Publication in conference minutes: SI **External admission assessment committee:** SI



Type: Scientific and technical document or report

Falcone, F.; Martín, F.; Bonache, J.; Baena, J.; Lopetegui, T.; Laso, M.; García-García, J.; Gil, I.; Marques, R. "Metamaterial configurations in coplanar waveguide technology". En: *2004 IEEE AP-S International Symposium and USNC/URSI National Radio Science Meeting*. pp. 3773 - 3776. IEEE, ISBN 0-7803-8303-6

57 Title: Electromagnetic Bandgap Structures in Planar Circuit Technology

Name of the conference: IEEE INTERNATIONAL ANTENNAS AND PROPAGATION SYMPOSIUM (AP-S)

Type of event: Workshop

City of the publishing body: Monterey (California), United States of America

Date of the event: 2004

Publication in conference minutes: SI

External admission assessment committee: SI

Type: Scientific and technical document or report

Falcone, F.; Martín, F.; Bonache, J.; Lopetegui, T.; Laso, M.; García, J.; Gil, I.; Sorolla, M. "Electromagnetic Bandgap Structures in Planar Circuit Technology". En: *2004 IEEE AP-S International Symposium and USNC/URSI National Radio Science Meeting*. pp. 3545 - 3548. IEEE, ISBN 0-7803-8303-6

58 Title: Super compact split ring resonators CPW band pass filters

Name of the conference: IEEE MTT-S International Microwave Symposium Digest

Type of event: Workshop

City of the publishing body: Texas, United States of America

Date of the event: 2004

Publication in conference minutes: SI

External admission assessment committee: SI

Type: Scientific and technical document or report

Bonache, J.; Martín, F.; Falcone, F.; García, J.; Gil, I.; Lopetegui, T.; Laso, M.; Marqués, R.; Medina, F.; Sorolla, M. "Super compact split ring resonators CPW band pass filters". En: *International Microwave Symposium Digest 2004*. pp. 1483 - 1486. IEEE, ISBN 0-7803-8331-1

59 Title: New capacitively coupled resonator band pass filters based on electromagnetic bandgaps

Name of the conference: International Conference on Electromagnetics in Advanced Application

City of the publishing body: Turin, Italy

Date of the event: 2003

Publication in conference minutes: SI

External admission assessment committee: SI

Type: Scientific and technical document or report

Martín, F.; Bonache, J.; Gil, I.; Falcone, F.; Lopetegui, T.; Sorolla, L. "New capacitively coupled resonator band pass filters based on electromagnetic bandgaps". En: *Proceedings of the International Conference on Electromagnetics in Advanced Applications*. pp. 663 - 666. Polytecnico di Torino, ISBN 8-8820-2008-8

Work presented in Seminars, Workshops and/or Courses at the national or international level.

Title: Metamateriales: innovación y transferencia de tecnología en el sector de las comunicaciones

Name of the event: Metamateriales: innovación y transferencia de tecnología en el sector de las comunicaciones

Type of event: Workshop

Appearance as: Speaker

City of the publishing body: Barcelona, Spain

Date of the event: 2010

Publication in conference minutes: NO

Type: Scientific and technical document or report

Gil, I. "Metamateriales: innovación y transferencia de tecnología en el sector de las comunicaciones". pp. 0 - 0.



Other publishing activities.

Title or object: Modulation technique to reduce EMI in Power Multiconverters de I E I C E Electronics Express

Appearance as: Others

Mon, J.; Gago, J.; González, D.; Balcells, J.; Fernandez, R.; Gil, I.; Bogonez, F..

Experiences transferred

Experience organising R&D activities

Title: MSED 2003 - 14th WORKSHOP ON MODELLING AND SIMULATION OF ELECTRON DEVICES

Type of activity: Conference

City of the publishing body: Barcelona, Spain

Your role: Organiser

Start date: 2003

Experience in assessment and review of R&D&I projects and articles

Name of the activity: Reviser de IEEE transactions on microwave theory and techniques

Responsibility held: Revisor de Revista

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

Start date: 05/05/2008

Other credits

Grants and scholarships obtained

1 Name of the scholarship: Ajut per a la millora docent

City :

Purpose : Post-doctoral

Issuing body: ETSEIAT - UPC

Type of body: R&D Centre

Amount of the scholarship: 3.800

Date of credit: 01/09/2009

2 Name of the scholarship: Juan de la Cierva

Purpose : Post-doctoral

Issuing body: Gobierno de España. Ministerio de Ciencia e Innovación (Micinn)

Type of body: Ministerio

Date of credit: 06/06/2008



Qualifications and awards accrediting professional quality

- 1 Description:** Mention. Premi Extraordinari de Doctorat
Body conferring the credit: Universitat Autònoma de Barcelona
Date of credit: 12/04/2011
Recognition linked: Premi Extraordinari de Doctorat en Enigyeria Electrònica curs 2006-2007 considerant l'impacte de les publicacions derivades en els dos anys següents a la seva lectura Any concessió: 2011 Atorgat per: Comissió de Doctorat de la Universitat Autònoma de Barcelona
- 2 Description:** First prize. EPSON Patent Award
Body conferring the credit: SEIKO EPSON CORPORATION (Japón) EPSON-Barcelona Research Lab.
Date of credit: 07/09/2009
Recognition linked: Concessió de premi per realització de patents: patent award EPSON Europe Electronics GmbH (3710 euros).
- 3 Description:** First prize. Duran Farell d'Investigació Tecnològica
Body conferring the credit: UPC
Date of credit: 10/05/2006
Recognition linked: Obtenció de la cinquena edició del Premi Duran Farell d'Investigació Tecnològica (any 2006), atorgat pel Consell Social de la Universitat Politècnica de Catalunya i concedit per l'empresa Gas Natural a un grup d'investigació (dotat de 60000 euros).

Collection of other credits.

- 1 Description credits:** 1 sexenni de recerca reconegut.
Body conferring the credit: AQU Catalunya **Type of body:** Body, others
Date of credit: 29/06/2009
- 2 Description credits:** Acreditación de Profesor Titular de Universidad.
Body conferring the credit: ANECA **Type of body:** Body, others
Date of credit: 21/05/2009
- 3 Description credits:** Acreditación de profesor Contratado Doctor.
Body conferring the credit: ANECA **Type of body:** Body, others
Date of credit: 14/11/2008
- 4 Description credits:** Acreditació de professor Lector.
Body conferring the credit: AQU Catalunya **Type of body:** Body, others
Date of credit: 07/12/2007
- 5 Description credits:** Acreditación de profesor Ayudante Doctor.
Body conferring the credit: ANECA **Type of body:** Body, others
Date of credit: 04/09/2007
- 6 Description credits:** Acreditació de professor Colaborador.
Body conferring the credit: AQU Catalunya **Type of body:** Body, others
Date of credit: 21/04/2005



7 **Description credits:** Acreditació de Formació Docent d'Educació Superior (FDES).

Body conferring the credit: Universitat Autònoma de Barcelona **Type of body:** University

Date of credit: 30/06/2004