



Antonio Baldi Coll

Generated from: Editor CVN de FECYT

Date of document: 28/01/2022

v 1.4.3

fa84086d052a46cd57bc423609582051

This electronic file (PDF) has embedded CVN technology (CVN-XML). The CVN technology of this file allows you to export and import curricular data from and to any compatible data base. List of adapted databases available at: <http://cvn.fecyt.es/>



Summary of CV

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

Dr. Antonio Baldi. BS degree in Telecommunication Engineering from the Universitat Politècnica de Catalunya in 1996, and the doctoral degree on Electronics Engineering from the Universitat Autònoma de Barcelona in 2001. From 2001 to 2003 he was at the University of Minnesota, working in the field of bioMEMS as a postdoctoral fellow. In the summer of 2003 he joined the Chemical Transducers Group at the Instituto de Microelectrónica de Barcelona (IMB-CNM), belonging to the Consejo Superior de Investigaciones Científicas of Spain, where he works as a scientist. He has participated in more than 30 projects financed by the Spanish Government, the European Community, and private contracts. He has also co-authored more than 60 technical papers in main international journals and more than 15 patents. His research interests include electrochemical transducers and lab-on-a-chip systems for chemical sensing and biodetection.



General quality indicators of scientific research

This section describes briefly the main quality indicators of scientific production (periods of research activity, experience in supervising doctoral theses, total citations, articles in journals of the first quartile, H index...). It also includes other important aspects or peculiarities.

JCR articles: 60 (50 in Q1, 6 as first author, 17 as last author)

H index: 23 (Scopus)

Total citations: 1994 (Scopus)

Supervised doctoral thesis: 6

Filed patents: 15 (2 licensed, 8 in PCT, 3 in national phase, 8 as first inventor)

**Antonio Baldi Coll**

Surname(s): **Baldi Coll**
 Name: **Antonio**

Current professional situation

Employing entity: Consejo Superior de Investigaciones Científicas
Department: INSTITUTO DE MICROELECTRONICA DE BARCELONA
Professional category: Científico Titular
Start date: 11/09/2008
Type of contract: Civil servant **Dedication regime:** Full time
Primary (UNESCO code): 330714 - Semi-conductor devices; 330790 - Microelectronics; 330791 - Microelectronics: silicon Technology; 330793 - Microelectronics. Design
Identify key words: Electronic circuits; Sensors for chemical applications; Sensors for biologic applications; Materials for mems/nems (microelectromechanical systems /nanoelectromechanical systems); Technologies of fabrication of mems and nems; Design and simulation of mems and nems

Previous positions and activities

	Employing entity	Professional category	Start date
1	INSTITUTO DE MICROELECTRONICA DE BARCELONA	Ramón y Cajal Contract	16/11/2004
2	INSTITUTO DE MICROELECTRONICA DE BARCELONA	I3P Contract	16/06/2003
3	University of Minnesota	Postdoctoral Fellow	28/01/2001

1 **Employing entity:** INSTITUTO DE MICROELECTRONICA DE BARCELONA **Type of entity:** State agency
Professional category: Ramón y Cajal Contract
Start-End date: 16/11/2004 - 10/09/2009

2 **Employing entity:** INSTITUTO DE MICROELECTRONICA DE BARCELONA **Type of entity:** State agency
Professional category: I3P Contract
Start-End date: 16/06/2003 - 15/11/2004

3 **Employing entity:** University of Minnesota **Type of entity:** University
Professional category: Postdoctoral Fellow
Start-End date: 28/01/2001 - 15/06/2003



Education

University education

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

Name of qualification: Ingeniero de Telecomunicación
Degree awarding entity: Universitat Politècnica de Catalunya
Date of qualification: 08/10/1996

Doctorates

Doctorate programme: Ingeniero en Electrónica
Degree awarding entity: Universitat Autònoma de Barcelona
Date of degree: 19/01/2001

Language skills

Language	Listening skills	Reading skills	Spoken interaction	Speaking skills	Writing skills
French		B1	A1	A1	A1
English		C1	C1	C1	C1

Teaching experience

Experience supervising doctoral thesis and/or final year projects

- Project title:** Desarrollo de un Kit Tecnológico de Microfluídica para la Detección de Resistencias Antimicrobianas en Infecciones Urinarias en Medicina Humana y Veterinaria
Type of project: Master thesis
Entity: Universitat Autònoma de Barcelona
Student: Icíar Martínez Flórez
Date of reading: 01/07/2019
- Project title:** Desarrollo de un kit para la detección in situ de genes de resistencia antimicrobiana
Type of project: Master thesis
Entity: Universitat Autònoma de Barcelona
Student: Jordi Molina Fontanals
Date of reading: 03/09/2018
- Project title:** Light-actuated microfluidics
Type of project: Master thesis
Entity: Escola Tècnica Superior d'Enginyeria de Telecomunicació de Barcelona (Master in Photonics)



Student: Unai Ortiz de Orruño Cuesta

Date of reading: 03/07/2017

- 4** **Project title:** Dispositius impedimètrics per a la detecció directa de microorganismes
Type of project: Doctoral thesis
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Maria Mallén Alberdi
Date of reading: 02/09/2016
- 5** **Project title:** Integration of an electrochemical device for monitoring glucose into a paper microfluidic system
Type of project: Master thesis
Entity: Universidad de Basel
Student: Martin Matter
Date of reading: 08/01/2016
- 6** **Project title:** Integración de microsensores y estructuras microfluídicas para la medida de parámetros químicos en sistemas biológicos
Type of project: Doctoral thesis
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Isabel Burdallo Bautista
Date of reading: 29/01/2015
- 7** **Project title:** Sistema de Lectura Eléctrica de Microarrays Proteómicos
Type of project: Doctoral thesis
Entity: Universitat Autònoma de Barcelona **Type of entity:** University
Student: Diana Bonilla Aguilar
Date of reading: 19/12/2013
- 8** **Project title:** Sensors químics sense fils tipus LC basats en estructures capacitives d'efecte camp.
Type of project: Doctoral thesis
Entity: Universidad Autónoma de Barcelona Facultad / Escuela: Departamento de Ingeniería Electrónica
Student: Jesús García Cantón
Date of reading: 09/02/2011
- 9** **Project title:** Sensores Químicos Inalámbricos: Integración de Sistemas de Telemetría Inductiva y Transductores Electroquímicos.
Type of project: Doctoral thesis
Entity: Universidad Autónoma de Barcelona Facultad / Escuela: Departamento de Ingeniería Electrónica
Student: Fredy E. Segura-Quijano
Date of reading: 07/07/2010
- 10** **Project title:** New Concepts for Electrical Detection of Biomolecules.
Type of project: Doctoral thesis
Entity: Universidad Autónoma de Barcelona Facultad / Escuela: Departamento de Bioquímica y Biología Molecular
Student: Roberto de la Rica
Date of reading: 17/09/2007



Scientific and technological experience

Scientific or technological activities

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

- 1** **Name of the project:** DESARROLLO DE UNA PLATAFORMA INTELIGENTE “LAB-ON-CMOS” PARA LA IMPLEMENTACIÓN DE TESTS RÁPIDOS
Type of project: Basic research (including archaeological digs, etc)
Entity where project took place: INSTITUTO DE MICROELECTRONICA DE BARCELONA **Type of entity:** State agency
Name principal investigator (PI, Co-PI....): Antonio Baldi; Francesc Serra
Nº of researchers: 6
Funding entity or bodies: MICINN
Name of the programme: Proyectos I+D+i «Retos Investigación»
Code according to the funding entity: PID2020-118904RB-C21
Start-End date: 01/09/2021 - 31/08/2024
Total amount: 161.172 €
- 2** **Name of the project:** PANBIORA: PERSONALIZED AND/OR GENERALIZED INTEGRATED BIOMATERIAL RISK ASSESSMENT
Entity where project took place: INSTITUTO DE MICROELECTRONICA DE BARCELONA **Type of entity:** State agency
Name principal investigator (PI, Co-PI....): César Fernández
Nº of researchers: 3
Funding entity or bodies: EU, ref. 760921, H2020-NMBP-12-2017
Start-End date: 01/01/2018 - 31/12/2021
Total amount: 275.000 €
- 3** **Name of the project:** LUNGCHECK: MULTIPLEX POINT-OF-CARE DEVICE FOR LUNG DISEASE BIOMARKERS IN SPUTUM
Entity where project took place: INSTITUTO DE MICROELECTRONICA DE BARCELONA **Type of entity:** State agency
Name principal investigator (PI, Co-PI....): César Fernández
Nº of researchers: 3
Funding entity or bodies: ERA-NET EuroNanoMed-II (nº 49). (MINECO, ref. PCIN-2016-052)
Start-End date: 01/02/2017 - 28/02/2020
Total amount: 145.000 €
- 4** **Name of the project:** KIT POINT OF CARE PER A LA DETECCIÓ DE RESISTÈNCIES ANTIMICROBIANES (RES-KIT)
Type of project: Research and development, including transfer
Type of entity: State agency



Entity where project took place: INSTITUTO DE MICROELECTRONICA DE BARCELONA
Name principal investigator (PI, Co-PI....): Antonio Baldi Coll
Nº of researchers: 3
Funding entity or bodies: AGAUR/FEDER

Name of the programme: PRODUCTE
Code according to the funding entity: 2019PROD00095
Start-End date: 01/07/2020 - 31/01/2020
Total amount: 78.750 €

5 Name of the project: SISTEMA MICROFLUÍDICO MODULAR PARA LA MEDIDA DE CONTAMINANTES PRIORITARIOS EN AGUAS SUPERFICIALES

Entity where project took place: INSTITUTO DE MICROELECTRONICA DE BARCELONA **Type of entity:** State agency

Name principal investigator (PI, Co-PI....): César Fernández Sánchez; Antonio Baldi Coll

Nº of researchers: 6

Funding entity or bodies: MINECO (TEC2016-79367-C2-1-R)

Start-End date: 31/12/2016 - 31/12/2019

Total amount: 138.303 €

6 Name of the project: DESARROLLO DE UNA PLATAFORMA LAB-ON-A-CHIP BASADA EN ACTUADORES DE CERA PARA LA DETECCIÓN DE DROGAS

Entity where project took place: INSTITUTO DE MICROELECTRONICA DE BARCELONA **Type of entity:** State agency

Name principal investigator (PI, Co-PI....): Antonio Baldi Coll; César Fernández Sánchez

Nº of researchers: 3

Funding entity or bodies: MINECO, S.E.I.D.I. (TEC2013-44817-R)

Start-End date: 01/01/2014 - 31/12/2016

Total amount: 133.100 €

7 Name of the project: LAB-ON-A-CHIP DEVICES FOR SWEAT GLUCOSE, LACTATE, PH AND SWEAT RATIO MONITORING

Entity where project took place: INSTITUTO DE MICROELECTRONICA DE BARCELONA **Type of entity:** State agency

Name principal investigator (PI, Co-PI....): Antonio Baldi Coll; César Fernández Sánchez

Nº of researchers: 3

Funding entity or bodies: ACCIO, TECNIOSPRING (TECSPR14-1-0049)

Start-End date: 01/03/2014 - 29/02/2016

Total amount: 129.280 €

8 Name of the project: MICROSISTEMAS MONOLÍTICOS TIPO RFID PARA EL SENSADO AUTÓNOMO DE PARÁMETROS QUÍMICOS Y BIOLÓGICOS.

Entity where project took place: INSTITUTO DE MICROELECTRONICA DE BARCELONA **Type of entity:** State agency

Name principal investigator (PI, Co-PI....): A. Baldi

Nº of researchers: 9

**Funding entity or bodies:**

MEC-D.G.I.-S.G.P.I. (TEC2010-19467)

Start-End date: 01/01/2011 - 31/12/2013**Total amount:** 99.099 €**9 Name of the project:** SISTEMAS DE BIODETECCIÓN BASADOS EN MARCAS ENZIMÁTICAS Y TRANSDUCTORES IMPEDIMÉTRICOS.**Entity where project took place:** INSTITUTO DE MICROELECTRONICA DE BARCELONA **Type of entity:** State agency**Name principal investigator (PI, Co-PI....):** A. Baldi**Nº of researchers:** 2**Funding entity or bodies:**

CSIC (Proyectos Intramurales Especiales Ref. 2009501196)

Start-End date: 01/01/2010 - 31/12/2010**Total amount:** 30.000 €**10 Name of the project:** SISTEMAS INTEGRADOS DE MICROSENSORES QUÍMICOS INALÁMBRICOS Y AUTÓNOMOS.**Entity where project took place:** INSTITUTO DE MICROELECTRONICA DE BARCELONA **Type of entity:** State agency**Name principal investigator (PI, Co-PI....):** A. Baldi**Nº of researchers:** 8**Funding entity or bodies:**

D.G.I.-S.G.P.I. (TEC2007-67145/MIC)

Ministerio de Educación, Política Social y Deporte **Type of entity:** State agency**Start-End date:** 01/10/2007 - 30/09/2010**Total amount:** 241.800 €**11 Name of the project:** WIDSENS: WATER NETWORK SENSORS FOR WIDESPREAD USE.**Entity where project took place:** INSTITUTO DE MICROELECTRONICA DE BARCELONA **Type of entity:** State agency**Name principal investigator (PI, Co-PI....):** C Jiménez.**Funding entity or bodies:**

FP7-SME-2013 ref. 605802

Start date: 2013**Duration:** 2 years - 11 months**Participating entity/entities:** CNM-CISC (ES); Hydrelis (FR); INCDMTM (RO).; T.E. Laboratories Ltd (IR); Wellness Telecom (ES)**Total amount:** 22.700 €**12 Name of the project:** LECTURA ELÉCTRICA DE ALTA SENSIBILIDAD PARA MICROARRAYS PROTEÓMICOS.**Entity where project took place:** INSTITUTO DE MICROELECTRONICA DE BARCELONA**Name principal investigator (PI, Co-PI....):** A. Baldi**Nº of researchers:** 4**Funding entity or bodies:**

D.G.I.-S.G.P.I. (Programa EXPLORA). TEC2007-29637-E/

Ministerio de Educación, Política Social y Deporte **Type of entity:** State agency**Start date:** 01/2008**Duration:** 11 months



Participating entity/entities: C.S.I.C.; Instituto de Microelectrónica de Barcelona (IMB-CNM)
Total amount: 66.000 €

13 Name of the project: DESARROLLO DE MICROSENSORES ELECTROQUÍMICOS PARA MEDIDA DE CELULAS NERVIOSAS.

Entity where project took place: INSTITUTO DE MICROELECTRONICA DE BARCELONA

Name principal investigator (PI, Co-PI....): C. Jimenez

Nº of researchers: 4

Funding entity or bodies:
CSIC

PIF2006-50F0104

Start date: 01/2007

Duration: 2 years - 6 months

Participating entity/entities: Hosp. de Paraplégicos de Toledo; ICMAB; Instituto de Cerámica y Vidrio ; IMB-CNM

Total amount: 75.700 €

14 Name of the project: NANOTECNOLOGIAS PARA BIOMEDICINA

Entity where project took place: INSTITUTO DE MICROELECTRONICA DE BARCELONA

Name principal investigator (PI, Co-PI....): F. Perez Murano

Nº of researchers: 7

Funding entity or bodies:

D.G.I.-S.G.P.I. (CSD2006-12) CONSOLIDER-INGENIO 2010

Ministerio de Educación, Política Social y Deporte **Type of entity:** State agency

Start date: 07/2006

Duration: 3 years - 11 months

Participating entity/entities: CNM-IMB-CSIC; IBEC; ICB-CSIC; ICMA-CSIC; ICMAB-CSIC; Clínica Moncloa; INA; PCB; UAB; Universitat de Barcelona; Universidad de Santiago de Compostela; Universidade de Vigo

Total amount: 320.000 €

15 Name of the project: GRUPO DE TRANSDUCTORES QUÍMICOS

Name principal investigator (PI, Co-PI....): C. Jiménez

Nº of researchers: 8

Funding entity or bodies:
CIRIT

Generalitat de Catalunya 2005SGR 00776 (ayudas para potenciar las actividades de los grupos de investigación consolidados de Catalunya)

Start date: 01/2005

Duration: 2 years - 11 months

Participating entity/entities: IMB-CNM

Total amount: 37.600 €

16 Name of the project: DESARROLLO DE MICROSENSORES QUÍMICOS INALÁMBRICOS

Name principal investigator (PI, Co-PI....): A. Baldi

Nº of researchers: 5

Funding entity or bodies:

D.G.I.-S.G.P.I. (TEC2004-00068/MIC)

Ministerio de Educación, Política Social y Deporte **Type of entity:** State agency

Start date: 12/2004

Duration: 3 years

Participating entity/entities: C.S.I.C.; Instituto de Microelectrónica de Barcelona (IMB-CNM)



Total amount: 112.880 €

17 Name of the project: ACS: SISTEMA BASADO EN MICRO SENSORES PARA CONTROL AUTOMÁTICO DE PROCESOS EN LA INDUSTRIA ALIMENTARIA.

Name principal investigator (PI, Co-PI....): C. Domínguez

Nº of researchers: 52

Funding entity or bodies:

C.I.C. y T.

TIC98-1643-CE.

Start date: 01/1999

Duration: 1 year - 8 months

Participating entity/entities: C.S.I.C.; Instituto de Microelectrónica de Barcelona (IMB-CNM)

Total amount: 70.654 €

18 Name of the project: MICROMAG: BASIC RESEARCH ON THE USE OF MAGNETIC FLUIDS IN MICROSYSTEMS

Name principal investigator (PI, Co-PI....): J. Esteve

Funding entity or bodies:

BE97-4376

BRITE/EURAM III

U.E.

Start date: 01/1998

Duration: 2 years - 11 months

Participating entity/entities: Biosensores S.L. (ES); CNM-CSIC (coordinador); IMSAS; Liquids Research Ltd. (GB); Lund University (SE);; Magnetic Applications Ltd. (IE); Unv. Bremen (DE)

Total amount: 240.000 €

19 Name of the project: ACS: MICROSENSORS - BASED SYSTEM FOR AUTOMATIC PROCESS CONTROL IN A FOOD INDUSTRY.

Name principal investigator (PI, Co-PI....): C. Domínguez.

Funding entity or bodies:

ESPRIT IV-25296

U.E.

Start date: 11/1997

Duration: 3 years

Participating entity/entities: CNM-CISC (ES); CRL Ltd. (GB); Fac. Veterinaria; Fibosa (ES); KAT (GE) PVD (GE); Kerry Ingredients (IR); U.A.B. (ES); UCC (IR)

Total amount: 336.538 €

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

1 Name of the project: DESIGN AND DESIGN TRANSFER TO EURO PRACTICE OF AN ISFET CHIP FOR BIOSENSING

Name principal investigator (PI, Co-PI....): Francesc Serra; Antonio Baldi

Nº of researchers: 3

Participating entity/entities: D+T MICROELECTRONICA; INSTITUTO DE MICROELECTRONICA DE BARCELONA

Funding entity or bodies:

miDiagnostics NV

Type of entity: Business

Start date: 01/05/2021

Duration: 6 months



Total amount: 6.500 €

2 Name of the project: SINULAB-SENSORIZACIÓN PARA ANÁLISIS EN TIEMPO REAL DE COMPUESTOS QUÍMICOS SUELOS FLUIDOS

Name principal investigator (PI, Co-PI....): Cecilia Jiménez

Nº of researchers: 4

Funding entity or bodies:

Agrosmart Solutions S.L.

Type of entity: Business

Start date: 01/01/2021

Duration: 1 year

Total amount: 24.200 €

3 Name of the project: FABRICATION OF 50 SWEAT LACTATE/GLUCOSE DETECTION DEVICES AND TEST OF 6 DEVICES

Type of project: Technical viability study

Entity where project took place: D+T Microelectrónica

Entity where project took place: D+T Microelectrónica

Name principal investigator (PI, Co-PI....): Antonio Baldi

Nº of researchers: 2

Participating entity/entities: D+T MICROELECTRONICA; INSTITUTO DE MICROELECTRONICA DE BARCELONA

Funding entity or bodies:

Innovosens AB

Start date: 01/05/2020

Duration: 6 months

Total amount: 16.800 €

4 Name of the project: FABRICATION AND CHARACTERIZATION OF 6 WEARABLE SWEAT LACTATE DETECTION DEVICES

Type of project: Technical viability study

Name principal investigator (PI, Co-PI....): Antonio Baldi

Nº of researchers: 2

Participating entity/entities: D+T MICROELECTRONICA; INSTITUTO DE MICROELECTRONICA DE BARCELONA

Funding entity or bodies:

Innovosens AB

Start date: 01/01/2020

Duration: 3 months

Total amount: 4.000 €

5 Name of the project: DESARROLLO DE UNA SOLUCIÓN TECNOLÓGICA PARA LA MONITORIZACIÓN DOMICILIARIA DE LA HIPERCALCIURIA EN PACIENTES CON UROLITIASIS CÁLCICA. "CALCONTROL"

Degree of contribution: Scientific coordinator

Name principal investigator (PI, Co-PI....): Antonio Baldi Coll

Nº of researchers: 3

Participating entity/entities: GLOBAL HEALTH HOME DEVICES, S.L.; INSTITUTO DE MICROELECTRONICA DE BARCELONA

Funding entity or bodies:

CENTRO DE ACUSTICA APLICADA Y EVALUACION NO DESTRUCTIVA

Type of entity: Associations and Groups

GLOBAL HEALTH HOME DEVICES, S.L.

Type of entity: Business

City funding entity: Bellaterra, Catalonia, Spain

Ministerio de Industria Turismo y Comercio



Type of entity: Acción Estratégica de Economía y Sociedad Digital 2/2014

City funding entity: Madrid, Community of Madrid, Spain

Start date: 01/10/2014

Duration: 2 years - 3 months

Total amount: 100.000 €

6 Name of the project: CONVENIO DE COLABORACION ENTRE LA AGENCIA ESTATAL CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS Y GLOBAL HEALTH HOME DEVICES S.L. (Desarrollo de un sensor para la medida de pH en orina)

Degree of contribution: Scientific coordinator

Name principal investigator (PI, Co-PI....): Antonio Baldi

Nº of researchers: 5

Funding entity or bodies:

Global Health Home Devices S.L

Type of entity: Business

Start date: 01/06/2013

Duration: 1 year

Total amount: 4.000 €

7 Name of the project: INVESTIGACIÓN DE TECNOLOGÍAS DE TRATAMIENTO, REUTILIZACIÓN Y CONTROL PARA LA SOSTENIBILIDAD FUTURA DE LA DEPURACIÓN DE AGUAS RESIDUALES

Degree of contribution: Contrato

Name principal investigator (PI, Co-PI....): C. Fernández-Sánchez

Nº of researchers: 4

Participating entity/entities: C.S.I.C.; Instituto de Microelectrónica de Barcelona (IMB-CNM)

Funding entity or bodies:

(proyecto Innpronta del CDTI

ADASA S.A.U.

Ministerio de Ciencia e Innovación)

Start date: 10/2011

Duration: 3 years - 2 months

Total amount: 143.000 €

8 Name of the project: ADSCRIPCIÓN DEL GRUPO DE TRANSDUCTORES QUÍMICOS (GTQ) EN LA RED DE CENTROS DE APOYO A LA INNOVACIÓN TECNOLÓGICA, XARXA IT

Degree of contribution: Convenio

Name principal investigator (PI, Co-PI....): C. Jimenez

Nº of researchers: 10

Participating entity/entities: C.S.I.C.; Instituto de Microelectrónica de Barcelona (IMB-CNM)

Funding entity or bodies:

CIDEM

Generalitat de Catalunya

Start date: 01/2008

Duration: 2 years - 11 months

Total amount: 204.820 €

9 Name of the project: DISPLAY BRAILLE Y TÁCTIL BASADO EN TECNOLOGÍA DE MICROSISTEMAS

Degree of contribution: Contrato Directo

Name principal investigator (PI, Co-PI....): J. Roig

Nº of researchers: 5

Participating entity/entities: C.S.I.C.; Instituto de Microelectrónica de Barcelona (IMB-CNM); Univ. Autónoma de Barcelona

**Funding entity or bodies:**

ONCE (Num. de contrato 164950)

Start date: 03/2005**Duration:** 1 year - 3 months**Total amount:** 5.000 €**10 Name of the project:** DETERMINACIÓN DE PARÁMETROS QUÍMICOS EN BARRERAS BENTONÍICAS.**Degree of contribution:** Convenio**Name principal investigator (PI, Co-PI...):** C. Jimenez**Nº of researchers:** 5**Participating entity/entities:** C.S.I.C.; Instituto de Microelectrónica de Barcelona (IMB-CNM)**Funding entity or bodies:**

Plataforma Solar de Almeria

Type of entity: Public Research Body**Start date:** 07/2003**Duration:** 1 year**Total amount:** 68.688 €**11 Name of the project:** DETECCIÓN Y CUANTIFICACIÓN DE ANALITOS IÓNICOS EN DIAGNOSTICO CLÍNICO MEDIANTE SENSORES ELECTROQUÍMICOS DE ESTADO SÓLIDO.**Degree of contribution:** Contrato Directo**Name principal investigator (PI, Co-PI...):** C. Domínguez**Nº of researchers:** 5**Participating entity/entities:** C.S.I.C.; D+T Microelectrónica A.I.E.; Instituto de Microelectrónica de Barcelona (IMB-CNM)**Funding entity or bodies:**

BioSystems S.A.

Start date: 01/2002**Duration:** 2 years - 11 months**Total amount:** 54.086 €**12 Name of the project:** DESARROLLO DE SENSORES ELECTROQUÍMICOS DE ESTADO SÓLIDO APLICADOS A LA DETECCIÓN Y CUANTIFICACIÓN DE ANALITOS IÓNICOS EN DIAGNOSTICO CLÍNICO**Degree of contribution:** Contrato Directo**Name principal investigator (PI, Co-PI...):** C. Domínguez**Nº of researchers:** 5**Participating entity/entities:** C.S.I.C.; D+T Microelectrónica A.I.E.; Instituto de Microelectrónica de Barcelona (IMB-CNM)**Funding entity or bodies:**

BioSystems S.A.

Start date: 01/1999**Duration:** 2 years - 11 months**Total amount:** 63.106 €**13 Name of the project:** IMPLEMENTACIÓN DE UN SENSOR BASADO EN UN TRANSDUCTOR ISFET PARA DETERMINACIÓN ON-LINE DE ACETALDEHÍDO EN CORRIENTE DE CO₂.**Degree of contribution:** Contrato Directo**Name principal investigator (PI, Co-PI...):** C. Domínguez**Participating entity/entities:** C.S.I.C.; Instituto de Microelectrónica de Barcelona (IMB-CNM)**Funding entity or bodies:**

95-0120-OP

S.A. / C.I.C.y T.

Sociedad Española de Carburos Metálicos



Start date: 01/1997

Duration: 2 years

Total amount: 39.066 €

Results

Industrial and intellectual property

- 1 Title registered industrial property:** DISPOSITIVO Y PROCEDIMIENTO DE MEDIDA DE TASA DE SUDORACIÓN
Inventors/authors/obtainers: Antonio Baldi; Gonzalez Vazquez; César Fernández
Entity holder of rights: Consejo Superior de Investigaciones Científicas
Nº of application: P202130320
Date of register: 12/04/2021
- 2 Title registered industrial property:** Biosensor system for multiplexed detection of biomarkers
Inventors/authors/obtainers: César Fernández; Antonio Baldi; Manuel Gutiérrez
Entity holder of rights: Consejo Superior de Investigaciones Científicas
Nº of application: EP20382721
Date of register: 03/08/2020
- 3 Title registered industrial property:** A foldable fluidic device and method for biomarker detection in body fluids
Inventors/authors/obtainers: Arnau Bassegoda; Javier Hoyo; Tzanko Tzanov; César Fernández; Manuel Gutiérrez; Antonio Baldi
Entity holder of rights: Universitat Politècnica de Catalunya
Nº of application: EP20382343
Date of register: 28/04/2020
- 4 Title registered industrial property:** Microfluidics valve
Inventors/authors/obtainers: A. Baldi; M. Díaz; C. Fernández
Entity holder of rights: Consejo Superior de Investigaciones Científicas
Nº of application: EP17382011
Date of register: 13/01/2017
- 5 Title registered industrial property:** Sensor para sudor
Inventors/authors/obtainers: A. Baldi; C. Fernández; EP Córcoles
Entity holder of rights: Consejo Superior de Investigaciones Científicas
Nº of application: P201631304
Date of register: 07/10/2016
- 6 Title registered industrial property:** Sensor de iones de medida diferencial
Type of industrial property: Patent of invention
Inventors/authors/obtainers: A. Baldi; C. Fernández; A. Cadarso
Entity holder of rights: Consejo Superior de Investigaciones Científicas
Nº of application: P201531018
Country of inscription: Spain
Date of register: 13/07/2015
Licences: Yes
Operating aut.region/region: China / Japan / United States of America



Companies: -

Products: Lit-Control pH meter

- 7 Title registered industrial property:** Sensor, sonda y equipo para la medida de demanda química de oxígeno soluble basado en detección amperométrica para aplicaciones de control de calidad de aguas
Inventors/authors/obtainers: César Fernández Sánchez; Antonio Baldi; Manuel Gutierrez; Cecilia Jimenez; Raquel Gómez; Jordi Cros
Entity holder of rights: Adasa Sistemas, S.A.U.
Nº of application: P201530917
Date of register: 26/06/2015
- 8 Title registered industrial property:** Sensor de iones basado en medida diferencial y método de fabricación
Inventors/authors/obtainers: A. Baldi; C. Domínguez; C. Jiménez Jorquera; C. Fernández-Sánchez; A. Llobera; A. Merlos; A. Cadarso; I. Burdallo; F. Vera.
Entity holder of rights: Consejo Superior de Investigaciones Científicas
Nº of application: P201430180
Country of inscription: Spain
Date of register: 11/02/2014
Companies: Global Health Home Devices S.L
- 9 Title registered industrial property:** Dispositivo de radiofrecuencia
Inventors/authors/obtainers: J. Gemio; J. Parrón; A. Baldi; J. Sacristán
Entity holder of rights: Consejo Superior de Investigaciones Científicas (50%), Universidad Autónoma de Barcelona (50%)
Nº of application: P201101180
Country of inscription: Spain
Date of register: 26/10/2011
Companies: -
- 10 Title registered industrial property:** Dispositivo RFID con comunicación y alimentación remotas
Inventors/authors/obtainers: A. Baldi; J. Sacristán; F. Segura
Entity holder of rights: Consejo Superior de Investigaciones Científicas
Nº of application: P201030609
Country of inscription: Spain
Date of register: 27/04/2010
Companies: -
- 11 Title registered industrial property:** Aparato de agitación y caracterización de fluidos
Inventors/authors/obtainers: A. Baldi; J. Sacristán; J. García-Cantón
Entity holder of rights: Consejo Superior de Investigaciones Científicas
Nº of application: P201030439
Country of inscription: Spain
Date of register: 24/03/2010
Companies: -
- 12 Title registered industrial property:** Dispositivo de lectura de microarrays de tipo eléctrico reutilizable
Inventors/authors/obtainers: A. Baldi; C. Fernandez; R. de la Rica; D. Bonilla
Entity holder of rights: Consejo Superior de Investigaciones Científicas
Nº of application: 2009/0702
Country of inscription: Spain



Date of register: 08/07/2008

Companies: -

- 13 Title registered industrial property:** Método para definir y fabricar motivos superficiales nanométricos químicos reactivos mediante litografía blanda en fase gaseosa, motivos y dispositivos así obtenidos y sus aplicaciones
Inventors/authors/obtainers: R. de la Rica; C. Fernández Sánchez; A. Baldi; C. Domínguez; C. Jiménez
Entity holder of rights: Consejo Superior de Investigaciones Científicas
Nº of application: 2009/0700
Country of inscription: Spain
Date of register: 29/01/2008
Companies: -
- 14 Title registered industrial property:** Sensor Químico Inalámbrico Basado en la Conexión de un Inductor con un Capacitor Tipo EIS ó EMIS y sus Aplicaciones
Inventors/authors/obtainers: A. Baldi; J. García; A. Merlos; C. Domínguez; C. Jiménez; L. Moreno.
Entity holder of rights: Consejo Superior de Investigaciones Científicas
Nº of application: 200600118-PCT/ES07/070009
Date of register: 19/01/2006
Companies: -
- 15 Title registered industrial property:** Hydrogel Compositions, Devices, and Microscale Components
Inventors/authors/obtainers: R. A. Siegel; B. Ziaie; Y. Gu; A. Baldi; G. Misra; L. Ming; P.E. Loftness.
Entity holder of rights: Regents of the University of Minnesota
Nº of application: US20040494119-PCT/US02/35159
Country of inscription: United States of America
Date of register: 01/11/2002
Companies: -
- 16 Title registered industrial property:** Microscale component for use in implantable medical device has substrate with two intersecting sets of microscale channels on two respective surfaces of substrate, which have depth more than half of cross-section depth of substrate
Inventors/authors/obtainers: ZIAIE B; SIEGEL R A; GU Y; BALDI A; MISRA G P; LOFTNESS P E; LEI M
Entity holder of rights: UNIV MINNESOTA; ZIAIE B; SIEGEL R A; GU Y; BALDI A; MISRA G P; LOFTNESS P E; LEI M
Nº of patent: WO2003051286-A2; AU2002365091-A1; US2004248326-A1; AU2002365091-A8; US7988685-B2; WO2003051286-A3



Scientific and technological activities

Scientific production

H index: 23

Date of application: 01/12/2021

Fuente de Índice H: SCOPUS

Publications, scientific and technical documents

- 1** Manuel Gutiérrez-Capitán; Antonio Baldi; César Fernández-Sánchez. Array of individually addressable two-electrode electrochemical cells sharing a single counter/reference electrode for multiplexed enzyme activity measurements. *Biosensors and Bioelectronics*. 201, pp. 113952. 2022.
DOI: <https://doi.org/10.1016/j.bios.2021.113952>
Type of production: Scientific paper
- 2** P. Giménez-Gómez; A. Baldi; C. Ayora; C. Fernández-Sánchez. Automated Determination of As(III) in Waters with an Electrochemical Sensor Integrated into a Modular Microfluidic System. *ACS Sensors*. 4 - 12, pp. 3156 - 3165. 2019. Available on-line at: <https://doi.org/10.1021/acssensors.9b01286>.
Type of production: Scientific paper **Format:** Journal
- 3** P. Giménez-Gómez; C. Fernández-Sánchez; A. Baldi. Microfluidic Modules with Integrated Solid-State Sensors for Reconfigurable Miniaturized Analysis Systems. *ACS Omega*. 4 - 4, pp. 6192 - 6198. 2019. Available on-line at: <https://doi.org/10.1021/acsomega.9b00064>.
Type of production: Scientific paper **Format:** Journal
- 4** M. Díaz-González; A. Baldi; C. Fernández-Sánchez. Compact sampling device based on wax microfluidics. *Sensors and Actuators, B: Chemical*. 251, pp. 93 - 98. 2017. Available on-line at: <https://doi.org/10.1016/j.snb.2017.05.031>.
Type of production: Scientific paper **Format:** Journal
- 5** N. Alayo; C. Fernández-Sánchez; A. Baldi; J.P. Esquivel; X. Borrisé; F. Pérez-Murano. Gold interdigitated nanoelectrodes as a sensitive analytical tool for selective detection of electroactive species via redox cycling. *Microchimica Acta*. 183 - 5, pp. 1633 - 1639. 2016. Available on-line at: <https://doi.org/10.1007/s00604-016-1792-9>.
Type of production: Scientific paper **Format:** Journal
- 6** M. Mallén-Alberdi; N. Vigués; J. Mas; C. Fernández-Sánchez; A. Baldi. Impedance spectral fingerprint of *E. coli* cells on interdigitated electrodes: A new approach for label free and selective detection. *Sensing and Bio-Sensing Research*. 7, pp. 100 - 106. 2016. Available on-line at: <https://doi.org/10.1016/j.sbsr.2016.02.001>.
Type of production: Scientific paper **Format:** Journal
- 7** M. Díaz-González; C. Fernández-Sánchez; A. Baldi. Multiple actuation microvalves in wax microfluidics. *Lab on a Chip*. 16 - 20, pp. 3969 - 3976. 2016. Available on-line at: <https://doi.org/10.1039/c6lc00800c>.
Type of production: Scientific paper **Format:** Journal
- 8** Diaz-Gonzalez, Maria; Pablo Salvador, J.; Bonilla, Diana; Pilar Marco, M.; Fernandez-Sanchez, Cesar; Baldi, Antoni. A microfluidic device for the automated electrical readout of low-density glass-slide microarrays. *BIOSENSORS & BIOELECTRONICS*. 74, pp. 698 - 704. ELSEVIER ADVANCED TECHNOLOGY, 2015.



DOI: <https://doi.org/10.1016/j.bios.2015.07.005>

Type of production: Scientific paper

Format: Journal

- 9** Gutierrez-Capitan, Manuel; Baldi, Antoni; Gomez, Raquel; Garcia, Virginia; Jimenez-Jorquera, Cecilia; Fernandez-Sanchez, Cesar. Electrochemical Nanocomposite-Derived Sensor for the Analysis of Chemical Oxygen Demand in Urban Wastewaters. *ANALYTICAL CHEMISTRY*. 87 - 4, pp. 2152 - 2160. AMER CHEMICAL SOC, 2015.

DOI: <https://doi.org/10.1021/ac503329a>

Type of production: Scientific paper

Format: Journal

- 10** Javier León; Xavier Perpiñà; Jordi Sacristán; Miquel Vellvehí; Antonio Baldi; Xavier Jordà. Functional and Consumption Analysis of Integrated Circuits Supplied by Inductive Power Transfer by Powering Modulation and Lock-In Infrared Imaging. *IEEE TRANSACTIONS ON INDUSTRIAL ELECTRONICS*. 62 - 12, pp. 7774 - 7785. 2015.

DOI: <https://doi.org/10.1109/TIE.2015.2455024>

Type of production: Scientific paper

Format: Journal

Corresponding author: No

- 11** Grases, Felix; Rodriguez, Adrian; Berga, Francisco; Costa-Bauza, Antonia; Maria Prieto, Rafael; Burdallo, Isabel; Cadarso, Alfredo; Jimenez-Jorquera, Cecilia; Baldi, Antonio; Garganta, Rosendo. A new device for simple and accurate urinary pH testing by the Stone-former patient. *SPRINGERPLUS*. 3, SPRINGER INTERNATIONAL PUBLISHING AG, 2014. ISSN 2193-1801

DOI: <https://doi.org/10.1186/2193-1801-3-209>

Type of production: Scientific paper

Format: Journal

- 12** Diaz-Gonzalez, Maria; Munoz-Berbel, Xavier; Jimenez-Jorquera, Cecilia; Baldi, Antoni; Fernandez-Sanchez, Cesar. Diagnostics Using Multiplexed Electrochemical Readout Devices. *ELECTROANALYSIS*. 26 - 6, pp. 1154 - 1170. 2014. ISSN 1521-4109

DOI: <https://doi.org/10.1002/elan.201400015>

Type of production: Scientific paper

Format: Journal

- 13** Mallen, Maria; Diaz-Gonzalez, Maria; Bonilla, Diana; Salvador, Juan P.; Marco, Maria P.; Baldi, Antoni; Fernandez-Sanchez, Cesar. Reusable conductimetric array of interdigitated microelectrodes for the readout of low-density microarrays. *ANALYTICA CHIMICA ACTA*. 832, pp. 44 - 50. ELSEVIER SCIENCE BV, 2014.

DOI: <https://doi.org/10.1016/j.aca.2014.04.064>

Type of production: Scientific paper

Format: Journal

- 14** Leon, J.; Perpina, X.; Vellvehí, M.; Baldi, A.; Sacristan, J.; Jorda, X.. Wireless pad-free integrated circuit debugging by powering modulation and lock-in infrared sensing. *APPLIED PHYSICS LETTERS*. 102 - 8, AMER INST PHYSICS, 2013. ISSN 0003-6951

DOI: <https://doi.org/10.1063/1.4793665>

Type of production: Scientific paper

Format: Journal

- 15** Diaz-Gonzalez, Maria; Baldi, Antoni. Fabrication of Biofunctionalized Microfluidic Structures by Low-Temperature Wax Bonding. *ANALYTICAL CHEMISTRY*. 84 - 18, pp. 7838 - 7844. AMER CHEMICAL SOC, 2012. ISSN 0003-2700

DOI: <https://doi.org/10.1021/ac301512f>

Type of production: Scientific paper

Format: Journal

- 16** Burdallo, I.; Jimenez-Jorquera, C.; Fernandez-Sanchez, C.; Baldi, A.. Integration of microelectronic chips in microfluidic systems on printed circuit board. *JOURNAL OF MICROMECHANICS AND MICROENGINEERING*. 22 - 10, IOP PUBLISHING LTD, 2012. ISSN 0960-1317

DOI: <http://dx.doi.org/10.1088/0960-1317/22/10/105022>



Type of production: Scientific paper

Format: Journal

- 17** Fernandez-Rosas, E.; Baldi, A.; Ibanez, E.; Barrios, L.; Novo, S.; Esteve, J.; Plaza, J. A.; Duch, M.; Gomez, R.; Castell, O.; Nogues, C.; Fernandez-Sanchez, C.. Chemical Functionalization of Polysilicon Microparticles for Single-Cell Studies. LANGMUIR. 27 - 13, pp. 8302 - 8308. AMER CHEMICAL SOC, 2011. ISSN 0743-7463
DOI: <https://doi.org/10.1021/la200857x>

Type of production: Scientific paper

Format: Journal

- 18** Bonilla, Diana; Mallen, Maria; de la Rica, Roberto; Fernandez-Sanchez, Cesar; Baldi, Antonio. Electrical Readout of Protein Microarrays on Regular Glass Slides. ANALYTICAL CHEMISTRY. 83 - 5, pp. 1726 - 1731. AMER CHEMICAL SOC, 2011. ISSN 0003-2700
DOI: <https://doi.org/10.1021/ac102938z>

Type of production: Scientific paper

Format: Journal

- 19** Gemio, J.; Parron, J.; De Paco, P.; Sacristan, J.; Baldi, A.. IMPROVING SILICON INTEGRATED ANTENNAS BY SUBSTRATE MICROMACHINING: A STUDY OF ETCHING PATTERNS. PROGRESS IN ELECTROMAGNETICS RESEARCH-PIER. 117, pp. 365 - 378. E M W PUBLISHING, 2011. ISSN 1559-8985
DOI: <http://dx.doi.org/10.2528/PIER11050501>

Type of production: Scientific paper

Format: Journal

- 20** de La Rica, Roberto; Fabijanic, Kristina Ivana; Baldi, Antonio; Matsui, Hiroshi. Biomimetic Crystallization Nanolithography: Simultaneous Nanopatterning and Crystallization. ANGEWANDTE CHEMIE-INTERNATIONAL EDITION. 49 - 8, pp. 1447 - 1450. WILEY-V C H VERLAG GMBH, 2010. ISSN 1433-7851
DOI: <https://doi.org/10.1002/anie.200906200>

Type of production: Scientific paper

Format: Journal

- 21** Siegel, Ronald A.; Gu, Yuandong; Lei, Ming; Baldi, Antonio; Nuxoll, Eric E.; Ziaie, Babak. Hard and soft micro- and nanofabrication: An integrated approach to hydrogel-based biosensing and drug delivery. JOURNAL OF CONTROLLED RELEASE. 141 - 3, pp. 303 - 313. 2010. ISSN 0168-3659
DOI: <https://doi.org/10.1016/j.jconrel.2009.12.012>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - CHEMISTRY, MULTIDISCIPLINARY

Impact index in year of publication: 7.164

Journal in the top 25%: Yes

Position of publication: 14

No. of journals in the cat.: 147

- 22** Jimenez-Jorquera, Cecilia; Orozco, Jahir; Baldi, Antoni. ISFET Based Microsensors for Environmental Monitoring. SENSORS. 10 - 1, pp. 61 - 83. 2010. ISSN 1424-8220
DOI: <https://doi.org/10.3390/s100100061>

Type of production: Scientific paper

Format: Journal

Impact source: ISI

Category: Science Edition - INSTRUMENTS & INSTRUMENTATION

Impact index in year of publication: 1.774

Journal in the top 25%: Yes

Position of publication: 14

No. of journals in the cat.: 61

- 23** de la Rica, Roberto; Pejoux, Christophe; Fernandez-Sanchez, Cesar; Baldi, Antonio; Matsui, Hiroshi. Peptide-Nanotube Biochips for Label-Free Detection of Multiple Pathogens. SMALL. 6 - 10, pp. 1092 - 1095. WILEY-V C H VERLAG GMBH, 2010. ISSN 1613-6810
DOI: <https://dx.doi.org/10.1002%2Fsmall.201000151>

Type of production: Scientific paper

Format: Journal



- 24** Segura-Quijano, Fredy; Sacristan-Riquelme, Jordi; Garcia-Canton, Jesus; Oses, Maria Teresa; Baldi, Antonio. Towards Fully Integrated Wireless Impedimetric Sensors. SENSORS. 10 - 4, pp. 4071 - 4082. MOLECULAR DIVERSITY PRESERVATION INTERNATIONAL-MDPI, 2010. ISSN 1424-8220
DOI: <https://doi.org/10.3390/s100404071>
Type of production: Scientific paper **Format:** Journal
- 25** de la Rica, Roberto; Thompson, Sebastian; Baldi, Antonio; Fernandez-Sanchez, Cesar; Drain, Charles Michael; Matsui, Hiroshi. Label-Free Cancer Cell Detection with Impedimetric Transducers. ANALYTICAL CHEMISTRY. 81 - 24, pp. 10167 - 10171. AMER CHEMICAL SOC, 15/12/2009. ISSN 0003-2700
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - CHEMISTRY, ANALYTICAL
Impact index in year of publication: 5.214 **Journal in the top 25%:** Yes
Position of publication: 3 **No. of journals in the cat.:** 70
- 26** de la Rica, Roberto; Baldi, Antonio; Fernandez-Sanchez, Cesar; Matsui, Hiroshi. Single-Cell Pathogen Detection with a Reverse-Phase Immunoassay on Impedimetric Transducers. ANALYTICAL CHEMISTRY. 81 - 18, pp. 7732 - 7736. AMER CHEMICAL SOC, 15/09/2009. ISSN 0003-2700
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - CHEMISTRY, ANALYTICAL
Impact index in year of publication: 5.214 **Journal in the top 25%:** Yes
Position of publication: 3 **No. of journals in the cat.:** 70
- 27** Lei, Ming; Baldi, Antonio; Nuxoll, Eric; Siegel, Ronald A.; Ziaie, Babak. Hydrogel-based microsensors for wireless chemical monitoring. BIOMEDICAL MICRODEVICES. 11 - 3, pp. 529 - 538. SPRINGER, 01/06/2009. ISSN 1387-2176
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - ENGINEERING, BIOMEDICAL
Impact index in year of publication: 3.323 **Journal in the top 25%:** Yes
Position of publication: 7 **No. of journals in the cat.:** 59
- 28** de la Rica, Roberto; Baldi, Antonio; Fernandez-Sanchez, Cesar; Matsui, Hiroshi. Selective Detection of Live Pathogens via Surface-Confined Electric Field Perturbation on Interdigitated Silicon Transducers. ANALYTICAL CHEMISTRY. 81 - 10, pp. 3830 - 3835. AMER CHEMICAL SOC, 15/05/2009. ISSN 0003-2700
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - CHEMISTRY, ANALYTICAL
Impact index in year of publication: 5.214 **Journal in the top 25%:** Yes
Position of publication: 3 **No. of journals in the cat.:** 70
- 29** Gu, Yuandong; Dhanarajan, Anish P.; Hraby, Sarah L.; Baldi, Antonio; Ziaie, Babak; Siegel, Ronald A.. An interpenetrating glass-thermosensitive hydrogel construct Gated flow control and thermofluidic oscillations. SENSORS AND ACTUATORS B-CHEMICAL. 138 - 2, pp. 631 - 636. 06/05/2009. ISSN 0925-4005
Type of production: Scientific paper **Format:** Journal
- 30** Sacristan-Riquelme, Jordi; Segura-Quijano, Fredy; Baldi, Antoni; Teresa Oses, M.. Low power impedance measurement integrated circuit for sensor applications. MICROELECTRONICS JOURNAL. 40 - 1, pp. 177 - 184. ELSEVIER SCI LTD, 01/01/2009. ISSN 0026-2692
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC



Impact index in year of publication: 0.778
Position of publication: 145

Impact source: ISI

Impact index in year of publication: 0.778
Position of publication: 49

Journal in the top 25%: No
No. of journals in the cat.: 246

Category: Science Edition - NANOSCIENCE & NANOTECHNOLOGY

Journal in the top 25%: No
No. of journals in the cat.: 59

- 31** de la Rica, Roberto; Baldi, Antonio; Mendoza, Ernest; Paulo, Alvaro San; Llobera, Andreit; Fernandez-Sanchez, Cesar. Silane nanopatterns via gas-phase soft lithography. SMALL. 4 - 8, pp. 1076 - 1079. WILEY-V C H VERLAG GMBH, 01/08/2008. ISSN 1613-6810

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 6.525
Position of publication: 4

Format: Journal

Category: Science Edition - NANOSCIENCE & NANOTECHNOLOGY

Journal in the top 25%: Yes
No. of journals in the cat.: 52

- 32** de la Rica, Roberto; Fernandez-Sanchez, Cesar; Jimenez-Jorquera, Cecilia; Baldi, Antonio. Spermine-induced hybridization and charge inversion at the diffuse layer of a DNA-FET. JOURNAL OF PHYSICAL CHEMISTRY B. 112 - 25, pp. 7614 - 7617. AMER CHEMICAL SOC, 26/06/2008. ISSN 1520-6106

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 4.189
Position of publication: 22

Format: Journal

Category: Science Edition - CHEMISTRY, PHYSICAL

Journal in the top 25%: Yes
No. of journals in the cat.: 113

- 33** Moreno i Codinachs, Lia; Baldi, Antonio; Merlos, Angel; Abramova, Natalia; Ipatov, Andrey; Jimenez-Jorquera, Cecilia; Bratov, Andrey. Integrated multisensor for FIA-based electronic tongue applications. IEEE SENSORS JOURNAL. 8 - 5-6, pp. 608 - 615. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/05/2008. ISSN 1530-437X

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 1.61
Position of publication: 67

Format: Journal

Category: Science Edition - ENGINEERING, ELECTRICAL & ELECTRONIC

Journal in the top 25%: No
No. of journals in the cat.: 229

- 34** Segura-Quijano, Fredy; Garcia-Canton, Jesus; Sacristan, Jordi; Oses, Teresa; Baldi, Antonio. Wireless powering of single-chip systems with integrated coil and external wire-loop resonator. APPLIED PHYSICS LETTERS. 92 - 7, AMER INST PHYSICS, 18/02/2008. ISSN 0003-6951

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 3.726
Position of publication: 10

Format: Journal

Category: Science Edition - PHYSICS, APPLIED

Journal in the top 25%: Yes
No. of journals in the cat.: 95

- 35** Codinachs, Lia Moreno I.; Kloock, Joachim P.; Schoening, Michael J.; Baldi, Antoni; Ipatov, Andrey; Bratov, Andrey; Jimenez-Jorquera, Cecilia. Electronic integrated multisensor tongue applied to grape juice and wine analysis. ANALYST. 133 - 10, pp. 1440 - 1448. ROYAL SOC CHEMISTRY, 01/01/2008. ISSN 0003-2654

Type of production: Scientific paper

Impact source: ISI

Impact index in year of publication: 3.761
Position of publication: 5

Format: Journal

Category: Science Edition - CHEMISTRY, ANALYTICAL

Journal in the top 25%: Yes
No. of journals in the cat.: 70



- 36** Garcia-Canton, Jesus; Merlos, Angel; Baldi, Antonio. A wireless LC chemical sensor based on a high quality factor EIS capacitor. SENSORS AND ACTUATORS B-CHEMICAL. 126 - 2, pp. 648 - 654. ELSEVIER SCIENCE SA, 01/10/2007. ISSN 0925-4005
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2.934
Position of publication: 3
Format: Journal
Category: Science Edition - INSTRUMENTS & INSTRUMENTATION
Journal in the top 25%: Yes
No. of journals in the cat.: 55
- 37** Pan, Tingrui; Baldi, Antonio; Ziaie, Babak. Remotely adjustable check-valves with an electrochemical release mechanism for implantable biomedical microsystems. BIOMEDICAL MICRODEVICES. 9 - 3, pp. 385 - 394. SPRINGER, 01/06/2007. ISSN 1387-2176
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3.073
Position of publication: 5
Format: Journal
Category: Science Edition - ENGINEERING, BIOMEDICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 44
- 38** de la Rica, Roberto; Fernandez-Sanchez, Cesar; Baldi, Antonio. Electric preconcentration and detection of latex beads with interdigitated electrodes. APPLIED PHYSICS LETTERS. 90 - 17, AMER INST PHYSICS, 23/04/2007. ISSN 0003-6951
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3.596
Position of publication: 8
Format: Journal
Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: Yes
No. of journals in the cat.: 94
- 39** Orozco, J.; Baldi, A.; Baena, R.; Cadarso, A.; Bratov, A.; Jimenez, C.. Portable system based on microsensors for environmental monitoring applications. MEASUREMENT SCIENCE & TECHNOLOGY. 18 - 3, pp. 935 - 940. IOP PUBLISHING LTD, 01/03/2007. ISSN 0957-0233
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 1.297
Position of publication: 10
Format: Journal
Category: Science Edition - ENGINEERING, MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 67
- 40** de la Rica, Roberto; Baldi, Antonio; Fernandez-Sanchez, Cesar. Local detection of enzymatic ion generation with polycrystalline silicon interdigitated electrodes and its application to biosensing. APPLIED PHYSICS LETTERS. 90 - 7, AMER INST PHYSICS, 12/02/2007. ISSN 0003-6951
Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3.596
Position of publication: 8
Format: Journal
Category: Science Edition - PHYSICS, APPLIED
Journal in the top 25%: Yes
No. of journals in the cat.: 94
- 41** Garcia-Canton, J.; Merlos, A.; Baldi, A.. High-quality factor electrolyte insulator silicon capacitor for wireless chemical sensing. IEEE ELECTRON DEVICE LETTERS. 28 - 1, pp. 27 - 29. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/01/2007. ISSN 0741-3106
Type of production: Scientific paper
Impact source: ISI
Format: Journal

Impact index in year of publication: 2.486
Position of publication: 9

Category: Science Edition - ENGINEERING,
ELECTRICAL & ELECTRONIC
Journal in the top 25%: Yes
No. of journals in the cat.: 227

- 42** Orozco, Jahir; Baldi, Antoni; Martin, Pedro L.; Bratov, Andrei; Jimenez, Cecilia. Monitoring of bentonite pore water with a probe based on solid-state microsensors. ANALYTICA CHIMICA ACTA. 579 - 1, pp. 95 - 101. ELSEVIER SCIENCE BV, 02/10/2006. ISSN 0003-2670
- Type of production:** Scientific paper
Impact source: ISI
Impact index in year of publication: 2.894
Position of publication: 10
- Format:** Journal
Category: Science Edition - CHEMISTRY, ANALYTICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 68

- 43** de la Rica, Roberto; Fernandez-Sanchez, Cesar; Baldi, Antonio. Polysilicon interdigitated electrodes as impedimetric sensors. ELECTROCHEMISTRY COMMUNICATIONS. 8 - 8, pp. 1239 - 1244. ELSEVIER SCIENCE INC, 01/08/2006. ISSN 1388-2481
- Type of production:** Scientific paper
Impact source: ISI
Impact index in year of publication: 3.484
Position of publication: 3
- Format:** Journal
Category: Science Edition - ELECTROCHEMISTRY
Journal in the top 25%: Yes
No. of journals in the cat.: 22

- 44** Baldi, A; Lei, M; Gu, YD; Siegel, RA; Ziaie, B. A microstructured silicon membrane with entrapped hydrogels for environmentally sensitive fluid gating. SENSORS AND ACTUATORS B-CHEMICAL. 114 - 1, pp. 9 - 18. ELSEVIER SCIENCE SA, 30/03/2006. ISSN 0925-4005
- Type of production:** Scientific paper
Impact source: ISI
Impact index in year of publication: 2.331
Position of publication: 5
- Format:** Journal
Category: Science Edition - INSTRUMENTS &
INSTRUMENTATION
Journal in the top 25%: Yes
No. of journals in the cat.: 53

- 45** Lei, Ming; Baldi, Antonio; Nuxoll, Eric; Siegel, Ronald A.; Ziaie, Babak. A hydrogel-based implantable micromachined transponder for wireless glucose measurement. DIABETES TECHNOLOGY & THERAPEUTICS. 8 - 1, pp. 112 - 122. MARY ANN LIEBERT INC, 01/02/2006. ISSN 1520-9156
- Type of production:** Scientific paper
Format: Journal

- 46** Pan, T; Baldi, A; Ziaie, B. A reworkable adhesive-free interconnection technology for microfluidic systems. JOURNAL OF MICROELECTROMECHANICAL SYSTEMS. 15 - 1, pp. 267 - 272. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/02/2006. ISSN 1057-7157
- Type of production:** Scientific paper
Impact source: ISI
Impact index in year of publication: 2.659
Position of publication: 11
- Format:** Journal
Category: Science Edition - ENGINEERING,
ELECTRICAL & ELECTRONIC
Journal in the top 25%: Yes
No. of journals in the cat.: 206

- 47** Pan, T; Baldi, A; Davies-Venn, E; Drayton, RF; Ziaie, B. Fabrication and modeling of silicon-embedded high-Q inductors. JOURNAL OF MICROMECHANICS AND MICROENGINEERING. 15 - 4, pp. 849 - 854. IOP PUBLISHING LTD, 01/04/2005. ISSN 0960-1317
- Type of production:** Scientific paper
Impact source: ISI
Format: Journal



Impact index in year of publication: 2.499
Position of publication: 23

Category: Science Edition - MATERIALS SCIENCE,
MULTIDISCIPLINARY
Journal in the top 25%: Yes
No. of journals in the cat.: 178

- 48** Lei, M; Gu, YD; Baldi, A; Siegel, RA; Ziaie, B. High-resolution technique for fabricating environmentally sensitive hydrogel microstructures. LANGMUIR. 20 - 21, pp. 8947 - 8951. AMER CHEMICAL SOC, 12/10/2004. ISSN 0743-7463

Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 3.295
Position of publication: 20

Format: Journal
Category: Science Edition - CHEMISTRY, PHYSICAL
Journal in the top 25%: Yes
No. of journals in the cat.: 108

- 49** Ziaie, B; Baldi, A; Lei, M; Gu, YD; Siegel, RA. Hard and soft micromachining for BioMEMS: review of techniques and examples of applications in microfluidics and drug delivery. ADVANCED DRUG DELIVERY REVIEWS. 56 - 2, pp. 145 - 172. 10/02/2004. ISSN 0169-409X

Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 7.763
Position of publication: 7

Format: Journal
Category: Science Edition - PHARMACOLOGY &
PHARMACY
Journal in the top 25%: Yes
No. of journals in the cat.: 187

Source of citations: WOS

Citations: 193

- 50** Siegel, RA; Gu, YD; Baldi, A; Ziaie, B. Novel swelling/shrinking behaviors of glucose-binding hydrogels and their potential use in a microfluidic insulin delivery system. MACROMOLECULAR SYMPOSIA. 207, pp. 249 - 256. 02/2004. Available on-line at: <Symposium on Fundamentals and Applications of Polymer Gels>. ISSN 1022-1360

Legal deposit: DEC 05-07, 2001
Type of production: Scientific paper
Source of citations: WOS

Format: Journal
Citations: 25

- 51** Baldi, A; Fass, JN; De Silva, MN; Odde, DJ; Ziaie, B. A micro-tool for mechanical manipulation of in vitro cell arrays. BIOMEDICAL MICRODEVICES. 5 - 4, pp. 291 - 295. SPRINGER, 01/12/2003. ISSN 1387-2176

Type of production: Scientific paper

Format: Journal

- 52** Baldi, A; Fass, JN; De Silva, MN; Odde, DJ; Ziaie, B. A micro-tool for mechanical manipulation of in vitro cell arrays. BIOMEDICAL MICRODEVICES. 5 - 4, pp. 291 - 295. 12/2003. ISSN 1387-2176

Type of production: Scientific paper

Format: Journal

- 53** Baldi, A; Choi, W; Ziaie, B. A self-resonant frequency-modulated micromachined passive pressure transensor. IEEE SENSORS JOURNAL. 3 - 6, pp. 728 - 733. 12/2003. ISSN 1530-437X

Type of production: Scientific paper

Format: Journal

- 54** Baldi, A; Gu, YD; Loftness, PE; Siegel, RA; Ziaie, B. A hydrogel-actuated environmentally sensitive microvalve for active flow control. JOURNAL OF MICROELECTROMECHANICAL SYSTEMS. 12 - 5, pp. 613 - 621. IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, 01/10/2003. ISSN 1057-7157

Type of production: Scientific paper
Impact source: ISI
Impact index in year of publication: 2.759

Format: Journal
Category: Science Edition - ENGINEERING,
ELECTRICAL & ELECTRONIC
Journal in the top 25%: Yes

**Position of publication:** 8**No. of journals in the cat.:** 205

- 55** Baldi, A; Bratov, A; Mas, R; Dominguez, C. Electrostatic discharge sensitivity tests for ISFET sensors. SENSORS AND ACTUATORS B-CHEMICAL. 80 - 3, pp. 255 - 260. ELSEVIER SCIENCE SA, 01/12/2001. ISSN 0925-4005
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - INSTRUMENTS & INSTRUMENTATION
Impact index in year of publication: 1.44 **Journal in the top 25%:** Yes
Position of publication: 4 **No. of journals in the cat.:** 48
- 56** J. Artigas; A. Beltran; C. Jiménez; A. Baldi; R. Mas; C. Domínguez; J. Alonso. Application of ion sensitive field effect transistor based sensors to soil analysis. Computers and Electronics in Agriculture. 31 - 3, pp. 281 - 293. 2001. Available on-line at: <[https://doi.org/10.1016/S0168-1699\(00\)00187-3](https://doi.org/10.1016/S0168-1699(00)00187-3)>.
Type of production: Scientific paper **Format:** Journal
- 57** S. Casans; A. Edith Navarro; D. Ramírez; J. Pelegrí; A. Baldi; N. Abramova. Novel constant current driver for ISFET/MEMFETs characterization. Sensors and Actuators, B: Chemical. 76 - 1-3, pp. 629 - 633. 2001. Available on-line at: <[https://doi.org/10.1016/S0925-4005\(01\)00658-X](https://doi.org/10.1016/S0925-4005(01)00658-X)>.
Type of production: Scientific paper **Format:** Journal
- 58** Bratov, A; Abramova, N; Dominguez, C; Baldi, A. Ion-selective field effect transistor (ISFET)-based calcium ion sensor with photocured polyurethane membrane suitable for ionised calcium determination in milk. ANALYTICA CHIMICA ACTA. 408 - 1-2, pp. 57 - 64. ELSEVIER SCIENCE BV, 09/03/2000. ISSN 0003-2670
Type of production: Scientific paper **Format:** Journal
Impact source: ISI **Category:** Science Edition - CHEMISTRY, ANALYTICAL
Impact index in year of publication: 1.849 **Journal in the top 25%:** No
Position of publication: 18 **No. of journals in the cat.:** 65
- 59** Baldi, A; Bratov, A; Dominguez, C. ISFET amplifier analysis with HSPICE. QUIMICA ANALITICA. 18, pp. 43 - 45. 1999. ISSN 0212-0569
Type of production: Scientific paper **Format:** Journal
- 60** M. Gutiérrez-capitán; A. Baldi; C. Fernández-sánchez. Electrochemical paper-based biosensor devices for rapid detection of biomarkers. Sensors. 20 - 4, pp. 967 - 967. 2020. Available on-line at: <<https://doi.org/10.3390/s20040967>>.
Type of production: Review **Format:** Journal
- 61** M. Díaz-González; M. Gutiérrez-Capitán; P. Niu; A. Baldi; C. Jiménez-Jorquera; C. Fernández-Sánchez. Electrochemical devices for the detection of priority pollutants listed in the EU water framework directive. TrAC - Trends in Analytical Chemistry. 77, pp. 186 - 202. 2016. Available on-line at: <<https://doi.org/10.1016/j.trac.2015.11.023>>.
Type of production: Review **Format:** Journal

Works submitted to national or international conferences

- 1** **Title of the work:** Analytical tools for the multiplex rapid detection of SARS-CoV-2
Name of the conference: Biosensors for Pandemics
City of event: Online,
Date of event: 2021
C Fernández.-Sánchez; MP Marco; F Martínez de la Fuente; R Eritja; M Royo; M Gutiérrez; A Baldi; A Calleja; C Jiménez; N Pascual; R Galve; P Salvador; L Sappia; D López-Alvárez; L Vilaplana; M Rodríguez; C Cuestas; A Aviñó; D Pulido; G Berardi; M Durán.
- 2** **Title of the work:** Cytokine reaction systems for reactions to biomaterials
Name of the conference: 11th World Biomaterials Congress (WBC)
City of event: Online,
Date of event: 2020
Ana Sanchís; Mireia Burdó-Masferrer; César Fernández-Sánchez; Antonio Baldi; Maria Pilar Marco.
- 3** **Title of the work:** Fully Automated Immunoassay in a Lab-on-a-Foil Device with Led-Actuated Valves
Name of the conference: Miniaturized Systems for Chemistry and Life Sciences (μ TAS 2020)
City of event: Online,
Date of event: 2020
Mireia Burdó-Masferrer; María Díaz-González; Ana Sanchís; Maria Pilar Marco; César Fernández Sánchez; Antonio Baldi.
- 4** **Title of the work:** Fully Automated Bead-Based Affinity Assays with Photothermally Actuated Wax Valves
Name of the conference: Miniaturized Systems for Chemistry and Life Sciences (μ TAS 2019)
City of event: Basel,
Date of event: 2019
Mireia Burdó-Masferrer; María Díaz-González; Ana Sanchís; Maria Pilar Marco; César Fernández Sánchez; Antonio Baldi.
- 5** **Title of the work:** Individually addressable two-electrode electrochemical cell array sharing a single reference/counter electrode for enzyme activity measurements
Name of the conference: Micro and Nano Engineering
City of event: Rhodes (Grece),
Date of event: 2019
Manuel Gutiérrez-Capitán; Ángel Merlos; Antonio Baldi; César Fernández-Sánchez.
- 6** **Title of the work:** LED actuated wax valves in lab-on-a-foil for bead-based diagnostic devices
Name of the conference: Smart Systems Integration
City of event: Barcelona,
Date of event: 2019
Mireia Burdó; María Díaz-González; César Fernández-Sánchez; Antonio Baldi.
- 7** **Title of the work:** Modular lab on chip system integrating a gold nanoparticle-based electrochemical sensor for the on-line detection of arsenic in surface waters
Name of the conference: Smart Systems Integration
City of event: Barcelona,
Date of event: 2019
Pablo Giménez-Gómez; Antonio Baldi; César Fernández-Sánchez.



- 8** **Title of the work:** Coupling a lateral flow device based on an immunomagnetic assay with an electrochemical transduction approach
Name of the conference: Ibero-American Congress on Sensors
City of event: Barcelona,
Date of event: 2018
Manuel Gutiérrez-Capitán; Antonio Baldi; César Fernández-Sánchez.
- 9** **Title of the work:** Electrochemical detection of arsenic in water using silicon sensors integrated into a modular lab on chip device
Name of the conference: Ibero-American Congress on Sensors
City of event: Barcelona,
Date of event: 2018
Pablo Giménez-Gómez; César Fernández-Sánchez; Antonio Baldi.
- 10** **Title of the work:** Flexible Modular Lab-on-chip devices with integrated Silicon Sensors for monitoring Water Pollutants
Name of the conference: 22nd International Conference on Miniaturized Systems for Chemistry and Life Sciences, μ TAS2018
City of event: Kaohsiung (Taiwan),
Date of event: 2018
Pablo Giménez-Gómez; Antonio Baldi; César Fernández-Sánchez.
- 11** **Title of the work:** Integrated a/d architecture based on modulation for the development of a smart ISFET
Name of the conference: Ibero-American Congress on Sensors
City of event: Barcelona,
Date of event: 2018
Daniel Garnier; Olimpia Arias de Fuentes; Antonio Baldi; Cecilia Jiménez-Jorquera; Francesc Serra-Graells.
- 12** **Title of the work:** Rapid prototyping of microfluidic modules for reconfigurable lab-on-a-chip devices with integrated silicon sensors
Name of the conference: International Conference on Electroanalysis
City of event: Rodos (Grece),
Date of event: 2018
Pablo Giménez-Gómez; Antonio Baldi; César Fernández-Sánchez.
- 13** **Title of the work:** Wax microfluidics light-addressable valve with multiple actuation
Name of the conference: SPIE Microtechnologies
City of event: Barcelona,
Date of event: 2017
Maria Díaz; César Fernández-Sánchez; Antonio Baldi.
- 14** **Title of the work:** Sweat pH and glucose analyzer based on paper microfluidics and solid-state microsensors
Name of the conference: 20th International Conference on Miniaturized Systems for Chemistry and Life Sciences (μ TAS2016)
City of event: Dublin,
Date of event: 2016
Emma Córcoles; César Fernández-Sánchez; Antonio Baldi.



- 15 Title of the work:** Wax microfluidics-based sampling device
Name of the conference: 20th International Conference on Miniaturized Systems for Chemistry and Life Sciences (μ TAS2016)
City of event: Dublin,
Date of event: 2016
Maria Díaz; Antonio Baldi; César Fernández-Sánchez.
- 16 Title of the work:** Low-consumption multiple-actuation wax microvalve
Name of the conference: 18th International Conference on Miniaturized Systems for Chemistry and Life Sciences (μ TAS2014)
City of event: San Antonio,
Date of event: 2014
M. Díaz-González; E. Alvarez-Conde; C. Fernández-Sánchez; and A. Baldi.
- 17 Title of the work:** Microfluidic impedimetric system for the automatic readout of low-density microarrays
Name of the conference: 18th International Conference on Miniaturized Systems for Chemistry and Life Sciences (μ TAS2014)
City of event: San Antonio,
Date of event: 2014
M. Díaz-González; J. P. Salvador; D. Bonilla; M. P. Marco; A. Baldi; and C. Fernández-Sánchez.
- 18 Title of the work:** Reusable impedimetric array of gold interdigitated microelectrodes for multiplexed detection of proteins
Name of the conference: Biosensors 2014
City of event: Melbourne,
Date of event: 2014
Maria Díaz-González; Maria Mallén; Xavier Muñoz-Berbel; Antonio Baldi; César Fernández-Sánchez.
- 19 Title of the work:** Stripping voltammetric detection of trace heavy metals using gold ultramicroelectrode arrays
Name of the conference: IEEE 9th Ibero-American Congress on Sensors (IBERSENSOR)
City of event: Bogotá,
Date of event: 2014
Manuel; Baldi, Antoni; Jimenez-Jorquera, Cecilia; Fernandez-Sanchez, Cesar; Gomez, Raquel; Garcia, Virginia. ISBN 978-1-4799-6836-7
- 20 Title of the work:** Powering of single-chip fully integrated RFID wireless sensors
Name of the conference: ICELIE/IES Industry Forum/37th Annual Conference of the IEEE Industrial-Electronics-Society (IECON)
City of event: Melbourne,
Date of event: 2011
Baldi, A.; Segura-Quijano, F.; Sacristan, J.
- 21 Title of the work:** Development of characterization methods for micromachined embedded test structures
Name of the conference: Topical Meeting on Silicon Monolithic Intergrated Circuits in RF Systems
Type of event: Conference
City of event: Atlanta,
Organising entity: IEEE Microwave Theory & Tech Soc; Geirgua Tech, Georgia Electronic Design Ctr; NASA Glenn Res Ctr
Type of contribution: Scientific paper
Davies-Venn, E; Pan, T; Baldi, A; Drayton, RF; Ziaie, B. "2004 Topical Meeting on Silicon Monolithic Integrated Circuits in RF Systems, Digest of Papers". pp. 318 - 321. 01/01/2004. ISBN 0-7803-8703-1



- 22** **Title of the work:** A hydrogel-actuated smart microvalve with a porous diffusion barrier back-plate for active flow control
Name of the conference: 15th IEEE International Conference on Micro Electro Mechanical Systems (MEMS 2002)
City of event: LAS VEGAS,
Organising entity: IEEE; Robot & Automat Soc
Type of contribution: Scientific paper
Baldi, A; Gu, YD; Loftness, PE; Siegel, RA; Ziaie, B. "FIFTEENTH IEEE INTERNATIONAL CONFERENCE ON MICRO ELECTRO MECHANICAL SYSTEMS, TECHNICAL DIGEST". En: PROCEEDINGS: IEEE MICRO ELECTRO MECHANICAL SYSTEMS WORKSHOP. pp. 105 - 108. 01/01/2002. ISSN 1084-6999, ISBN 0-7803-7185-2
- 23** **Title of the work:** A hydrogel-based wireless chemical sensor
Name of the conference: 17th IEEE International Conference on Micro Electro Mechanical Systems
City of event: Maastricht,
Organising entity: IEEE Robot & Automat Soc
Type of contribution: Scientific paper
Lei, M; Baldi, A; Pan, TR; Gu, YD; Siegel, RA; Ziaie, B. "MEMS 2004: 17TH IEEE INTERNATIONAL CONFERENCE ON MICRO ELECTRO MECHANICAL SYSTEMS, TECHNICAL DIGEST". En: PROCEEDINGS: IEEE MICRO ELECTRO MECHANICAL SYSTEMS WORKSHOP. pp. 391 - 394. 01/01/2004. ISSN 1084-6999, ISBN 0-7803-8265-X
- 24** **Title of the work:** A microtool for in vitro cell array manipulation
Name of the conference: 2nd Annual International IEEE/EMBS Conference on Microtechnologies in Medicine and Biology
City of event: MADISON,
Organising entity: IEEE/Engn Med & Biol Soc; Natl Inst Hlth; Defense Adv Res Project Agcy; Motorola; NimbleGen Syst Inc; PanVera Corp; Dow Chem Co; GWC Instruments; Venture Invest LLC; Univ Wisconsin-Madison, Dept Biome
Type of contribution: Scientific paper
Baldi, A; Fass, JN; De Silva, MN; Odde, DJ; Ziaie, B. "2ND ANNUAL INTERNATIONAL IEEE-EMBS SPECIAL TOPIC CONFERENCE ON MICROTECHNOLOGIES IN MEDICINE & BIOLOGY, PROCEEDINGS". En: IEEE Engineering in Medicine and Biology Society Annual Conference (EMBS). pp. 180 - 183. 01/01/2002. ISSN 1049-3565, ISBN 0-7803-7480-0
- 25** **Title of the work:** A self-resonant frequency-modulated micromachined passive pressure transensor
Name of the conference: 1st IEEE Conference on Sensors (SENSORS 2002)
City of event: ORLANDO,
Organising entity: IEEE
Type of contribution: Scientific paper
Baldi, A; Choi, W; Ziaie, B. "IEEE SENSORS JOURNAL". 3 - 6, pp. 728 - 733. 01/12/2003. ISSN 1530-437X
- 26** **Title of the work:** A wireless potentiometric chemical sensor based on a low resistance ENOS capacitive structure
Name of the conference: 19th IEEE International Conference on Micro Electro Mechanical Systems (MEMS 2006)
City of event: Istanbul,
Organising entity: IEEE; Robot & Automat Soc
Type of contribution: Scientific paper
Garcia-Canton, J; Merlos, A; Baldi, A. "MEMS 2006: 19TH IEEE INTERNATIONAL CONFERENCE ON MICRO ELECTRO MECHANICAL SYSTEMS, TECHNICAL DIGEST". En: PROCEEDINGS: IEEE MICRO ELECTRO MECHANICAL SYSTEMS. pp. 462 - 465. 01/01/2006. ISSN 1084-6999, ISBN 0-7803-9475-5



- 27** **Title of the work:** An environmentally responsive microflow controller with double side tethered structure for the entrapment of hydrogel
Name of the conference: 16th IEEE Annual International Conference on Micro Electro Mechanical Systems
City of event: KYOTO,
Organising entity: IEEE; Robot & Automat Soc
Type of contribution: Scientific paper
Baldi, A; Lei, M; Gu, Y; Siegel, RA; Ziaie, B. "MEMS-03: IEEE THE SIXTEENTH ANNUAL INTERNATIONAL CONFERENCE ON MICRO ELECTRO MECHANICAL SYSTEMS". En: PROCEEDINGS: IEEE MICRO ELECTRO MECHANICAL SYSTEMS WORKSHOP. pp. 84 - 87. 01/01/2003. ISSN 1084-6999, ISBN 0-7803-7744-3
- 28** **Title of the work:** Fabrication and modeling of silicon-embedded high Q inductors
Name of the conference: 17th IEEE International Conference on Micro Electro Mechanical Systems
City of event: Maastricht,
Organising entity: IEEE Robot & Automat Soc
Type of contribution: Scientific paper
Pan, TR; Baldi, A; Davies-Venn, E; Drayton, RF; Ziaie, B. "MEMS 2004: 17TH IEEE INTERNATIONAL CONFERENCE ON MICRO ELECTRO MECHANICAL SYSTEMS, TECHNICAL DIGEST". En: PROCEEDINGS: IEEE MICRO ELECTRO MECHANICAL SYSTEMS WORKSHOP. pp. 809 - 812. 01/01/2004. ISSN 1084-6999, ISBN 0-7803-8265-X
- 29** **Title of the work:** ISFET amplifier analysis with HSPICE
Name of the conference: 1st Ibero-American Congress on Sensors and Biosensors (IBERSENSOR 98)
City of event: HAVANA,
Organising entity: Inst Mat Reactivos, Fac Phys; Ctr Invest Microelectron; Ctr Estudios Aplicados Desarroll Energ Nucl; Inst Cibernet, Ctr Ultrason; Matemat Fis
Type of contribution: Scientific paper
Baldi, A; Bratov, A; Dominguez, C. "QUIMICA ANALITICA". 18, pp. 43 - 45. 01/01/1999. ISSN 0212-0569
- 30** **Title of the work:** Inductive link modeling and design guidelines for optimum power transfer in implantable wireless microsystems
Name of the conference: 25th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society
City of event: Cancun,
Organising entity: IEEE Engn Med & Biol Soc; Coral; Univ Autonome Metropolitana; Sandia Natl Lab
Type of contribution: Scientific paper
Salim, A; Baldi, A; Ziaie, B. "PROCEEDINGS OF THE 25TH ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY, VOLS 1-4". En: PROCEEDINGS OF ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY. 25, pp. 3368 - 3371. 01/01/2003. ISSN 1094-687X, ISBN 0-7803-7789-3
- 31** **Title of the work:** Instrumentation system to improve ISFET behaviour
Name of the conference: 19th IEEE Instrumentation and Measurement Technology Conference (IMTC/2002)
City of event: ANCHORAGE,
Organising entity: IEEE Instrumentat & Measurement Soc
Type of contribution: Scientific paper
Casans, S; Navarro, AE; Ramirez, D; Espi, JM; Abramova, N; Baldi, A. "IMTC 2002: PROCEEDINGS OF THE 19TH IEEE INSTRUMENTATION AND MEASUREMENT TECHNOLOGY CONFERENCE, VOLS 1 & 2". En: IEEE INSTRUMENTATION & MEASUREMENT TECHNOLOGY CONFERENCE, PROCEEDINGS. pp. 1291 - 1294. 01/01/2002. ISSN 1091-5281, ISBN 0-7803-7218-2



- 32** **Title of the work:** Miniaturization techniques applied to Standard CMOS technology integrated antennas
Name of the conference: 4th European Conference on Antennas and Propagation (EuCAP)
City of event: Barcelona,
Organising entity: esa; CST; FEKO; TICRA; ANSOFT; ANSYS; speag; fractus; IET; WILEY-BLACKWELL; EPFL; EUREL; UPC
Type of contribution: Scientific paper
Gemio, J.; Parron, J.; Sacristan, J.; Vila, F.; Serra-Graells, F.; Baldi, A.; de Paco, P. "PROCEEDINGS OF THE FOURTH EUROPEAN CONFERENCE ON ANTENNAS AND PROPAGATION". 01/01/2010. ISBN 978-84-7653-472-4
- 33** **Title of the work:** Modulation of drug delivery rate by hydrogel-incorporating MEMS devices
Name of the conference: 2nd Annual International IEEE/EMBS Conference on Microtechnologies in Medicine and Biology
City of event: MADISON,
Organising entity: IEEE/Engn Med & Biol Soc; Natl Inst Hlth; Defense Adv Res Project Agcy; Motorola; NimbleGen Syst Inc; PanVera Corp; Dow Chem Co; GWC Instruments; Venture Invest LLC; Univ Wisconsin-Madison, Dept Biome
Type of contribution: Scientific paper
Gu, YD; Baldi, A; Ziaie, B; Siegel, RA. "2ND ANNUAL INTERNATIONAL IEEE-EMBS SPECIAL TOPIC CONFERENCE ON MICROTCHNOLOGIES IN MEDICINE & BIOLOGY, PROCEEDINGS". En: IEEE Engineering in Medicine and Biology Society Annual Conference (EMBS). pp. 406 - 409. 01/01/2002. ISBN 0-7803-7480-0
- 34** **Title of the work:** Novel constant current driver for ISFET/MEMFETs characterization
Name of the conference: 8th International Meeting on Chemical Sensors (IMCS-8)
City of event: BASEL,
Type of contribution: Scientific paper
Casans, S; Navarro, AE; Ramirez, D; Pelegri, J; Baldi, A; Abramova, N. "SENSORS AND ACTUATORS B-CHEMICAL". 76 - 1-3, pp. 629 - 633. 01/06/2001. ISSN 0925-4005
- 35** **Title of the work:** Novel swelling/shrinking behaviors of glucose-binding hydrogels and their potential use in a microfluidic insulin delivery system
Name of the conference: Symposium on Fundamentals and Applications of Polymer Gels
City of event: Oaxaca,
Type of contribution: Scientific paper
Siegel, RA; Gu, YD; Baldi, A; Ziaie, B. "MACROMOLECULAR SYMPOSIA". 207, pp. 249 - 256. 01/02/2004. ISSN 1022-1360
- 36** **Title of the work:** Novel voltage-controlled conditioning circuit applied to the ISFETs temporary drift and thermal dependency
Name of the conference: 9th International Meeting on Chemical Sensors
City of event: BOSTON,
Type of contribution: Scientific paper
Casans, S; Navarro, AE; Ramirez, D; Castro, E; Baldi, A; Abramova, N. "SENSORS AND ACTUATORS B-CHEMICAL". 91 - 1-3, pp. 11 - 16. 01/06/2003. ISSN 0925-4005
- 37** **Title of the work:** Remotely adjustable check-valves with an electrochemical release mechanism for implantable biomedical microsystem
Name of the conference: 26th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society
City of event: San Francisco,
Organising entity: IEEE Engn Med & Biol Soc; Whitaker Fdn; Cyberonics; NIH; NIBIB; NIDOC; NINDS



Type of contribution: Scientific paper

Pan, T; Baldi, A; Ziaie, B. "PROCEEDINGS OF THE 26TH ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY, VOLS 1-7". En: PROCEEDINGS OF ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY. 26, pp. 2658 - 2661. 01/01/2004. ISSN 1094-687X, ISBN 0-7803-8439-3

38 Title of the work: Simultaneous neurite elicitation and elongation from neurons using a microfabricated post array

Name of the conference: 24th Annual International Conference of the Engineering-in-Medicine-and-Biology-Society/Annual Fall Meeting of the Biomedical-Engineering-Society (EMBS 2002 BMES)

City of event: HOUSTON,

Organising entity: Engn Med & Biol Soc; Biomed Engn Soc; Natl Sci Fdn; Natl Inst Hlth; Natl Inst Biomed Imaging & Bioengn; Whitaker Fdn

Type of contribution: Scientific paper

De Silva, MN; Baldi, A; Fass, JN; Ziaie, B; Odde, DJ. "SECOND JOINT EMBS-BMES CONFERENCE 2002, VOLS 1-3, CONFERENCE PROCEEDINGS". En: PROCEEDINGS OF ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY. pp. 1706 - 1707. 01/01/2002. ISSN 1094-687X, ISBN 0-7803-7612-9

39 Title of the work: Soft mold-dry etch: A novel hydrogel patterning technique for biomedical applications

Name of the conference: 26th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society

City of event: San Francisco,

Organising entity: IEEE Engn Med & Biol Soc; Whitaker Fdn; Cyberonics; NIH; NIBIB; NIDOC; NINDS

Type of contribution: Scientific paper

Lei, M; Gu, YD; Baldi, A; Siegel, RA; Ziaie, B. "PROCEEDINGS OF THE 26TH ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY, VOLS 1-7". En: PROCEEDINGS OF ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY. 26, pp. 1983 - 1986. 01/01/2004. ISSN 1094-687X, ISBN 0-7803-8439-3

40 Title of the work: Tissue temperature measurement and heat transfer mechanisms for inductively powered implantable micrystems

Name of the conference: 24th Annual International Conference of the Engineering-in-Medicine-and-Biology-Society/Annual Fall Meeting of the Biomedical-Engineering-Society (EMBS 2002 BMES)

City of event: HOUSTON,

Organising entity: Engn Med & Biol Soc; Biomed Engn Soc; Natl Sci Fdn; Natl Inst Hlth; Natl Inst Biomed Imaging & Bioengn; Whitaker Fdn

Type of contribution: Scientific paper

Choi, W; Pan, T; Baldi, A; Ziaie, B. "SECOND JOINT EMBS-BMES CONFERENCE 2002, VOLS 1-3, CONFERENCE PROCEEDINGS". En: PROCEEDINGS OF ANNUAL INTERNATIONAL CONFERENCE OF THE IEEE ENGINEERING IN MEDICINE AND BIOLOGY SOCIETY. pp. 1838 - 1839. 01/01/2002. ISSN 1094-687X, ISBN 0-7803-7612-9

41 Title of the work: "A Monolithic Low Power Impedance Measurement System" XXII Conference on Design of Circuits and Integrated Systems, noviembre 2007, Sevilla.

J. Sacristán; F. Segura; A. Baldi; T. Osés.

42 Title of the work: "A micromachined self-resonant-frequency modulated passive pressure transensor" IEEE Sensors 2002, Proceedings, Orlando 2002, Vol. 2, pp. 960-963

A. Baldi; W. Choi; and B. Ziaie.



- 43 Title of the work:** “Amperometric glucose microsensors with polysiloxane diffusion membrane” 3th International Conference on Electroanalysis (ESEAC 2010), Junio 2010, Gijón
I. Burdallo; M. Díaz-González; C. Jimenez-Jorquera; A. Baldi.
- 44 Title of the work:** “Batch Integration of Stimuli-Sensitive Hydrogels in MEMS Microstructures with Environmental Exposure” μ TAS 2003, proceedings of the, Squaw Valley 2003, pp. 351-354
M. Lei; A. Baldi; T. Pan; Y. Gu; R. A. Siegel; and B. Ziaie.
- 45 Title of the work:** “CMOS chemical smart sensors” NIH/IEEE Circuits and Systems for Medical and Environmental Applications Workshop, Diciembre 2009, Mérida (México).
A. Baldi.
- 46 Title of the work:** “Chemical multi-sensor array with electrically isolated devices” Eurosensors XVIII, Digest of Technical Papers, Rome 2004, pp. 44-45
A. Bratov; A. Merlos; L. Moreno; A. Baldi; C. Dominguez.
- 47 Title of the work:** “Conductimetric transducer array for the readout of low-density protein microarrays” The 17th International Conference on Solid-State Sensors, Actuators and Microsystems (Transducers’13) Proceedings, Junio 2013, Barcelona.
Maria Mallén; Diana Bonilla; María Díaz-González; Juan P. Salvador; María P. Marco; Antoni Baldi; César Fernández-Sánchez.
- 48 Title of the work:** “Development of a ISFET based análisis system for in situ monitoring of soils” IMCS 2000 Abstract Book, Basel 2000, p. 62
J. Artigas; A. Beltran; C. Jimenez; A. Baldi; R. Mas; C. Domínguez; J. Alonso.
- 49 Title of the work:** “Differential injection analysis based on backside-contacted ISFETs” 13th International Conference on Microelectronics, Proceedings of The, Rabat 2001, pp. 119 - 122
M.C. Acero; A. Errachid; A. Baldi; J. Esteve; N. Garcia; T. Diez-Caballero.
- 50 Title of the work:** “Diffusion Polysiloxane Membrane to Extend the Linearity of Amperometric Glucose Sensors Integrated with Silicon Technology” 216th Electrochemical Society Meeting, octubre 2009, Vienna.
I. Burdallo; C. Jiménez Jorquera and A. Baldi.
- 51 Title of the work:** “EIS-capacitor-based LC wireless chemical sensors” Transducers’07, Digest of technical papers, Lyon 2007, pp. 1903-1906
J. García-Cantón; L. Moreno; C. Jiménez; A. Merlos; A. Baldi.
- 52 Title of the work:** “Efficient wireless powering of single-chip systems” SMART SYSTEMS INTEGRATION, abril 2008, Barcelona.
A. Baldi; F. Segura; Jesús García-Canton; J. Sacristán; T. Osés.
- 53 Title of the work:** “Fully-Integrated wireless CMOS smart sensor” SMART SYSTEMS INTEGRATION, abril 2008, Barcelona.
F. Segura; J. Sacristán; Jesús García-Canton; T. Osés; A. Baldi.
- 54 Title of the work:** “High Sensitivity Electrical Readout for Protein Microarrays” 216th Electrochemical Society Meeting, octubre 2009, Vienna.
D. Bonilla; R. de la Rica; A. Palacio; C. Fernánde-Sánchez and A. Baldi.



- 55 Title of the work:** “High sensitivity electrical readout for protein and DNA microarrays” Lab-on-a-Chip World Congress, mayo 2008, Barcelona.
D. Bonilla; A. Chamorro; R. de la Rica; C. Fernández-Sánchez; A. Baldi.
- 56 Title of the work:** “High sensitivity electrical readout for protein microarrays” 3th International Conference on Electroanalysis (ESEAC 2010), Junio 2010, Gijón
D. Bonilla; M. Mallén; R. de la Rica; A. Baldi and C. Fernández-Sánchez.
- 57 Title of the work:** “Impedimetric biosensing with interdigitated arrays of nano electrodes fabricated by nanoimprint lithography” 52nd International Conference on Electron, Ion and Photon Beam Technology and Nanofabrication (EIPBN08), mayo 2008, Portland.
I. Fernández-Cuesta; J. García; J. Orozco; C. Fernández-Sánchez; A. Baldi; X. Borrisé; F. Pérez-Murano.
- 58 Title of the work:** “Injectable Rectifiers as Microdevices for Remote Electrical Stimulation: an Alternative to Inductive Coupling” World Congress 2012 on Medical Physics and Biomedical Engineering, IFMBE Proceedings, Beijing, China, 2012, pp. 1581-1584.
A. Ivorra; J. Sacristan; A. Baldi.
- 59 Title of the work:** “Interdigitated nanoelectrodes fabricated by nanoimprint lithography for nanoparticles detection” 34 International Conference on Micro- and Nano- Engineering. MNE, septiembre 2008, Atenas.
I. Fernández-Cuesta; L. Solé; X. Borrisé; C. Fernández-Sánchez; A. Baldi; F. Pérez-Murano.
- 60 Title of the work:** “MICROMAG: Basic Research in the Use of Magnetic Fluids in Microsystems” Nanotech99, Montreux 1999
R. Pérez-Castillejos; A. Baldi; J. A. Plaza; J. Esteve; A. Menz; W. Benecke; N. García; J. Higuero; T. Díez-Caballero; K. O’Grady; S. Wells; V. Patel; K. Johnson; D. Kriz; D. Hurley.
- 61 Title of the work:** “Miniaturization techniques applied to Standard CMOS technology integrated antennas” 4th European Conference on Antennas and Propagation (EUCAP 2010), abril 2010, Barcelona.
J. Gemio; J. Parrón; J. Sacristan; F. Vila; F. Serra-Graells; A. Baldi; P. de Paco.
- 62 Title of the work:** “New concepts for biosensing using interdigitated electrodes” EUROANALYSIS-XIV, 9-14 de Septiembre 2007, Antwerp.
R. de la Rica; A. Baldi; C. Fernandez-Sanchez.
- 63 Title of the work:** “On-chip protein detection by local resistivity measurements: Towards an electronic protein array” 12th International Meeting on Chemical Sensors, julio 2008, Columbus.
R. de la Rica; C. Fernández-Sánchez; D. Bonilla; A. Chamorro; A. Baldi.
- 64 Title of the work:** “Portable Equipment Based On Microelectrodes For Environmental Monitoring Applications” EUROSENSORS XIX, Conference Proceedings, Barcelona 2005, vol. 2, pp. WPb35
J. Orozco; R. Baena; A. Baldi; A. Bratov; C. Jiménez.
- 65 Title of the work:** “Potentiometric Detection of DNA in Spermine-based Buffers” 12th International Meeting on Chemical Sensors, julio 2008, Columbus.
R. de la Rica; C. Fernández-Sánchez; C. Jiménez-Jorquera; A. Baldi.
- 66 Title of the work:** “Rapid immunodetection of pathogens on interdigitated transducers by perturbation of conduction and displacement currents” Rapid Methods Europe 2011, Enero 2011, Noordwijkerhout (Holanda).
A. Baldi.



- 67 Title of the work:** "Recent Results on a Hydrogel-Enzyme Oscillator and on Microfabricated Hydrogel Constructs" GelSympto 2007, 6-9 de agosto, 2007, Tokyo.
R.A. Siegel; A. Bhalla; S. Mujumdar; M. Lei; A. Baldi; B. Ziaie.
- 68 Title of the work:** "Single cell tracking with polysilicon barcodes for live cell imaging studies" 17th International Microscopy Congress (IMC17), September 2010, Rio de Janeiro
E. Fernández-Rosas; S. Novo; L. Barrios; A Baldi; J.A. Plaza; C. Fernández-Sánchez; C. Nogués; E. Ibáñez.
- 69 Title of the work:** "Suitability of Polysilicon Interdigitated Electrodes for the Fabrication of both Impedimetric Sensors and Biosensors" IBERSENSOR' 06, Book of abstracts, Montevideo 2006, pp. 9974-0-0337-7
R. de la Rica; C. Fernández-Sánchez; C. Jiménez; A. Baldi.
- 70 Title of the work:** "Thick Film Photolithographic method for automated packaging of Chemical microsensors" MME '96 Micromechanics Europe, Barcelona 1996, pp. 295-296
J. Muñoz. A. Bratov; R. Mas; A. Baldi; M. Burray; C. Dominguez.
- 71 Title of the work:** "Virtual instrument for electrical and chemical characterisation of ISFET-based chemical sensors" Topical Symposium IX-Solid State Chemical and Biochemical Sensors, Florence, 1998, pp 95-102.
E.E. Valdés; A. Baldi; J. Muñoz; A. Bratov; C. Dominguez.
- 72 Title of the work:** "Wafer level-compatible deposition of a polysiloxane membrane to extend the linearity of microfabricated amperometric glucose sensors" NIH/IEEE Circuits and Systems for Medical and Environmental Applications Workshop, diciembre 2009, Mérida (México).
I. Burdallo; A. Baldi; C. Jimenez-Jorquera.
- 73 Title of the work:** "Wax patterns by decal-transfer-microlithography and its use for low-temperature-bonding of bio-functionalized μ TAS" 14th Int. Conf. on Miniaturized Syst. for Chem. and Life Sci. (μ TAS 2010), Octubre 2010, Groningen
M. Díaz-González and A. Baldi.
- 74 Title of the work:** "Performance Degradation in Silicon Integrated Antennas due to Coils for Inductive Energy Coupling", 5th European Conference on Antennas and Propagation, Abril 2011, Roma.
J. Gemio; J. Parron; J. Sacristan; A. Baldi.