

Ficha de grupo de investigación

GRUPO DE INVESTIGACION EN DISPOSITIVOS ELECTRONICOS

Código: TIC105

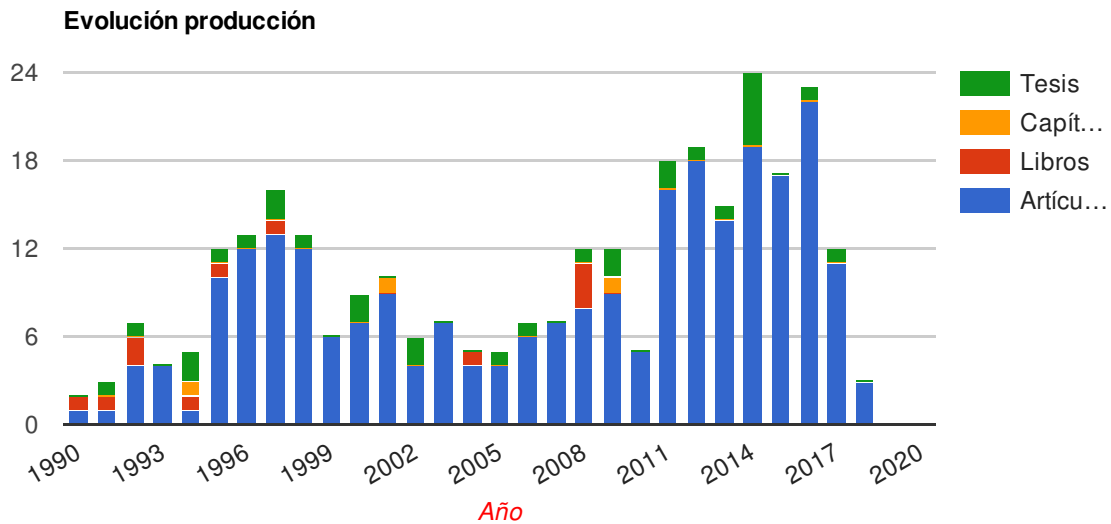
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- ALMUDENA RIVADENEYRA TORRES Otros
- PILAR LÓPEZ VARO
- PABLO ESCOBEDO ARAQUE Contratado predoctoral de Investigación Tiempo completo

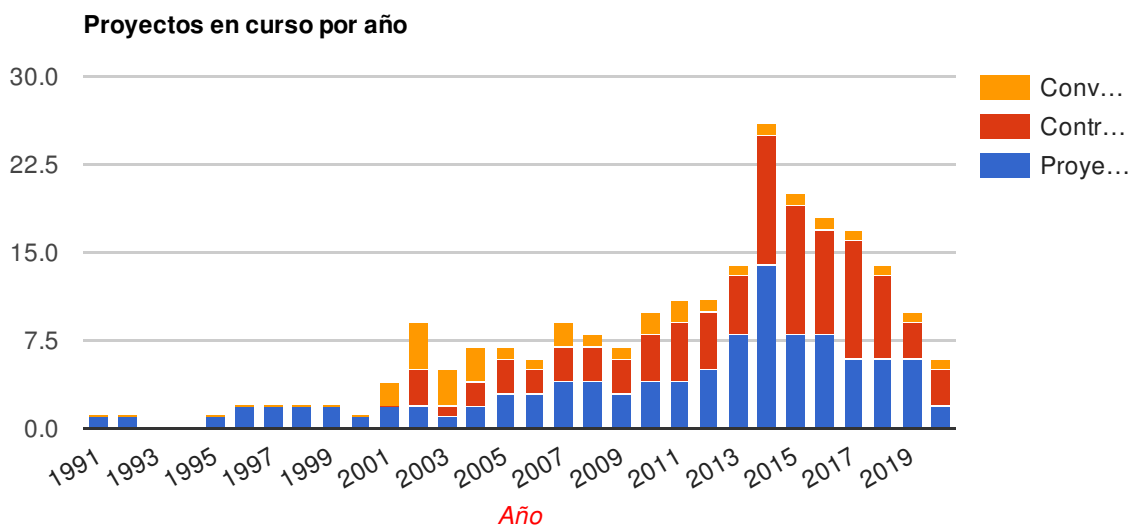
Producción 691

- Artículos (619)
- Libros (26)
- Capítulos de Libros (7)
- Tesis dirigidas (39)



Proyectos dirigidos 68

- Proyectos (33)
- Contratos (28)
- Convenios (7)



Actividades 9

Titulo publicación	Fuente	Tipo	Fecha
Asymmetric enhanced surface interdigitated electrode capacitor with two out-of-plane electrodes	Sensors and actuators b: chemical	Articulo	2018
Organic thin film transistors using a liquid crystalline palladium phthalocyanine as active layer	Journal of applied physics	Articulo	2018
Unified compact ecc-aes co-processor with group-key support for iot devices in wireless sensor networks	Sensors	Articulo	2018
16s rna gene-based characterization of bacteria potentially associated with phosphate and carbonate precipitation from a granular autotrophic nitrogen removal bioreactor	Applied microbiology and biotechnology	Articulo	2017
A 3d kinetic monte carlo simulation study of resistive switching processes in ni/hfo2/si-n+-based rams	Journal of physics d: applied physics	Articulo	2017
A compact dosimetric system for mosfets based on passive nfc tag and smartphone	Sensors and actuators a: physical	Articulo	2017
A new area-efficient bcd-digit multiplier	Digital signal processing	Articulo	2017
Boundary condition model for the simulation of organic solar cells	Organic electronics	Articulo	2017
Characterization of an interdigitated capacitive structure with branches for relative humidity sensing	IEEE sensors letters	Articulo	2017
Compact modeling of organic thin-film transistors with solution processed octadecyl substituted tetrabenzotriazaporphyrin as an active layer	IEEE transactions on electron devices	Articulo	2017
Compact modeling of physical mechanisms in organic solar cells		Tesis doctoral	2017
Comparison of fabrication techniques for flexible uhf rfid tag antennas	IEEE antennas and propagation magazine	Articulo	2017
Effects of ion distributions on charge collection in perovskite solar cells	ACS energy letters	Articulo	2017
Flexible passive near field communication tag for multigas sensing	Analytical chemistry	Articulo	2017
Read range enhancement of a sensing rfid tag by photovoltaic panel	Journal of sensors	Articulo	2017
Charge density at the contacts of symmetric and asymmetric organic diodes	Organic electronics	Articulo	2016
Charge transfer processes at the semiconductor/electrolyte interface for solar fuel production: insight from impedance spectroscopy	Journal of materials chemistry a	Articulo	2016
Co3o4 based all-oxide pv: a numerical simulation analyzed combinatorial material science study	The journal of physical chemistry c	Articulo	2016
Combinatorial investigation and modelling of moo3 hole-selective contact in tio2 co3o4 moo3 all-oxide solar cells	Advanced materials interfaces	Articulo	2016
Comments on "Fast architecture for decimal digit multiplication";	Microprocessors and microsystems	Articulo	2016
Computer vision-based portable system for nitroaromatics discrimination		Articulo	2016
Desarrollo de plantillas instrumentadas para la monitorización de parámetros biométricos		Tesis doctoral	2016
Development of a printed sensor for volatile organic compound detection at microg/l-level	Sensors and actuators b: chemical	Articulo	2016
Dose verification system based on mos transistor for real-time measurement	Sensors and actuators a: physical	Articulo	2016
Dynamic phenomena at perovskite/electron-selective contact interface as interpreted from photovoltaic decays		Articulo	2016

increased as interpreted from photovoltage decays			
Evaluation of a reconfigurable portable instrument for copper determination based on luminescent carbon dots	Analytical and bioanalytical chemistry	Articulo	2016
Flexible passive tag based on light energy harvesting for gas thresholddetermination in sealed environments	Sensors and actuators b: chemical	Articulo	2016
Gait recording with inertial sensors - how to determine initial and terminal contact	Journal of biomechanics (online)	Articulo	2016
Hardware activation by means of pufs and elliptic curve cryptography in field-programmable devices	Electronics	Articulo	2016
High-mobility toolkit for quantum dot films	Acs photonics	Articulo	2016
Passive uhf rfid tag for multispectral assessment	Sensors	Articulo	2016
Physical aspects of ferroelectric semiconductors for photovoltaic solar energy conversion	Physics reports	Articulo	2016
Printed electrodes structures as capacitive humidity sensors: a comparison	Sensors and actuators a: physical	Articulo	2016
Response to ionizing radiation of different biased and stacked pmos structures	Sensors and actuators a: physical	Articulo	2016
Thermal compensation technique using the parasitic diode for dmos transistors	Sensors and actuators a: physical	Articulo	2016
Tunable mems piezoelectric energy harvesting device	Microsystem technologies	Articulo	2016
Understanding the synergistic effect of wo3-bivo4 heterostructures by impedance spectroscopy	Physical chemistry chemical physics	Articulo	2016
Validation of instrumented insoles for measuring height in vertical jump	International journal of sports medicine	Articulo	2016
A printed capacitive-resistive double sensor for toluene and moisture sensing	Sensors and actuators b: chemical	Articulo	2015
Accuracy improvement of mosfet dosimeters in case of variation in thermal parameters	IEEE transactions on nuclear science	Articulo	2015
Adaptative ect system based on reconfigurable electronics	Measurement: journal of the international measurement confederation	Articulo	2015
An in-depth study of thermal effects in reset transitions in hfo2 based rams	Solid-state electronics	Articulo	2015
Cantilever fabrication by a printing and bonding process	IEEE journal of microelectromechanical systems	Articulo	2015
Comparative study of mosfet response to photon and electron beamsin reference conditions	Sensors and actuators a: physical	Articulo	2015
Design time optimization for hardware watermarking protection of hdl designs	The scientific world journal	Articulo	2015
Fast lifetime and amplitude determination in luminescenceexponential decays	Sensors and actuators b: chemical	Articulo	2015
Hf rfid tag as humidity sensor: two different approaches		Articulo	2015
I-v characteristics of in-plane and out-plane strained edge-hydrogenated armchair graphene nanoribbons	Journal of applied physics	Articulo	2015
Improved manufacturing process for printed cantilevers by usingwater removable sacrificial substrate	Sensors and actuators a: physical	Articulo	2015
Improvements for the applicability of power-watermarking to embedded ip cores protection: e-coreipp	Digital signal processing	Articulo	2015
Isolation and metagenomic characterization of bacteria associated with calcium carbonate and struvite precipitation in a pure moving bed biofilm reactor-membrane bioreactor	Biofouling	Articulo	2015
Passive uhf rfid tag with multiple sensing capabilities	Sensors	Articulo	2015

Portable system for photodiode-based electrochemiluminescence measurement with improved limit of detection		Articulo	2015
Two-dimensional carbon-based conductive materials with dynamically controlled asymmetric dirac cones	Physical chemistry chemical physics	Articulo	2015
Wearable system for monitoring of oxygen concentration in breath based on optical sensor	IEEE Sensors Journal	Articulo	2015
A novel electrode structure compared with interdigitated electrodes as capacitive sensor	Sensors and actuators b: chemical	Articulo	2014
A simplified thermal model for lateral mosfet and its application to temperature monitoring	Semiconductor science and technology	Articulo	2014
Analysis and characterization of pmosfet as dosimetric sensor		Tesis doctoral	2014
Compact modelling and contact effects in thin film transistors	IEEE Transactions on Electron Devices	Articulo	2014
Desarrollo de sistemas de medida basados en sensores químicos de tipo óptico		Tesis doctoral	2014
Design and characterization of a low thermal drift capacitive humidity sensor by inkjet-printing	Sensors and actuators b: chemical	Articulo	2014
Design and development of sensing rfid tags on flexible foil compatible with epc gen 2	IEEE Sensors Journal	Articulo	2014
Design of multisensor systems for environmental monitoring		Tesis doctoral	2014
Development of sensing capabilities in rfid technology		Tesis doctoral	2014
Ecg processing on reconfigurable hardware for efficient artifact reduction	Experimental and clinical cardiology	Articulo	2014
Electrical characterization of controlled and unintentional modified metal-organic contacts	Organic electronics	Articulo	2014
Embedded sensor insole for wireless measurement of gait parameters	Australasian physical & engineering sciences in medicine	Articulo	2014
Feasibility study of a simple and low-cost device for monitoring trihalomethanes presence in water supply systems based on statistical models	Water	Articulo	2014
General purpose mosfet for the dosimetry of electron beams used in intra-operative radiotherapy	Sensors and actuators a: physical	Articulo	2014
Precipitation of carbonate crystals by bacteria isolated from a submerged fixed-film bioreactor used for the treatment of urban wastewater	International journal of environmental research	Articulo	2014
Perspectivas en instrumentación óptica portátil para gases	Boletín Graseqa	Articulo	2014
Perspectivas en instrumentación óptica portátil para gases	Boletín Graseqa	Articulo	2014
Precipitation of phosphate minerals by microorganisms isolated from a fixed-biofilm reactor used for the treatment of domestic wastewater	International journal of environmental research and public health	Articulo	2014
Printed single-chip uhf passive radio frequency identification tags with sensing capability	Sensors and actuators a: physical	Articulo	2014
Properties and printability of inkjet and screen-printed silver patterns for rfid antennas	Journal of Electronic Materials	Articulo	2014
Propiedades electrónicas en sistemas de grafeno y materiales relacionados	Universidad de Granada, Universidad de Granada. Centro de Instrumentación Científica	Tesis doctoral	2014
Smartphone-based simultaneous nh and nitrite colorimetric			

Smartphone-based simultaneous ph and nitrite colorimetric determination for paper microfluidic devices	Analytical chemistry	Articulo	2014
Space-charge and injection limited current in organic diodes: a unified model	Organic electronics	Articulo	2014
Status of the project trapsensor	Hyperfine interactions	Articulo	2014
An application of reconfigurable technologies for non-invasive fetal heart rate extraction	Medical engineering and physics	Articulo	2013
Carbonate precipitation of bacterial strains isolated from sediments and seawater: formation mechanisms	Geomicrobiology journal	Articulo	2013
Characterization of organic thin film transistors with hysteresis and contact effects	Organic electronics	Articulo	2013
Efficient wavelet-based ecg processing for single-lead fhr extraction	Digital signal processing	Articulo	2013
Fast prototyping of paper-based microfluidic devices by contact stamping using indelible ink	Rsc advances: an international journal to further the chemical sciences	Articulo	2013
Influence on miniband structure of size variations in regimented inas/gaas quantum dots arrays	Journal of applied physics	Articulo	2013
Low-frequency noise studies on fully depleted utbox silicon- on-insulator nmosfets: challenges and opportunities		Articulo	2013
Modelado de fenómenos de histéresis y contactos en transistores orgánicos/poliméricos.		Tesis doctoral	2013
Noise suppression in ecg signals through efficient one-step wavelet processing techniques	Journal of applied mathematics	Articulo	2013
Precipitation of carbonates by bacteria isolated from wastewater samples collected in a conventional wastewater treatment plant	International journal of environmental science and technology	Articulo	2013
Properties and printability of ink-jet and screen printed silver patterns for rfid antennas	Journal of electronic materials	Articulo	2013
Screen printed flexible radiofrequency identification tag for oxygen monitoring	Analytical chemistry	Articulo	2013
Universal trapping mechanism in semiconductor nanocrystals	Nano letters	Articulo	2013
Using the mobile phone as munsell soil-colour sensor: an experiment under controlled illumination conditions	Computers and electronics in agriculture	Articulo	2013
Wave packet revivals in monolayer and bilayer graphene rings	Journal of physics: condensed matter	Articulo	2013
A compact and low cost dosimetry system based on mosfet for in vivo radiotherapy	Sensors and actuators a: physical	Articulo	2012
A compact optical instrument with artificial neural network for ph determination	Sensors	Articulo	2012
A reconstruction method for electrical capacitance tomography based on image fusion techniques	Digital signal processing	Articulo	2012
An application of reconfigurable technologies for non-invasive fetal heart rate extraction	Medical engineering and physics	Articulo	2012
Dependence of generation-recombination noise with gate voltage in fd soi mosfets	IEEE transactions on electron devices	Articulo	2012
Determination of o2 using colour sensing from image processing with mobile devices	Sensors and actuators b: chemical	Articulo	2012
Effects of gate oxide and junction nonuniformity on the dc and low-frequency noise performance of four-gate transistors	IEEE transactions on electron devices	Articulo	2012
Effects of gate oxide and junction nonuniformity on the dc and low-frequency noise performance of four-gate transistors	IEEE transactions on electron devices	Articulo	2012
Hole surface trapping in cdse nanocrystals: dynamics, rate	Nano letters	Articulo	2012

fluctuations, and implications for blinking	Nano letters	Articulo	2012
Influence of size and shape of InAs/GaAs quantum dots in the photophysics of regimented arrays	Journal of applied physics	Articulo	2012
Influence of the number of anchoring groups on the electronic and mechanical properties of benzene-, anthracene- and pentacene-based molecular devices		Articulo	2012
Measuring the colour of virgin olive oils in a new colour scale using a low-cost portable electronic device	Journal of food engineering	Articulo	2012
Modeling the transition from ohmic to space charge limited current in organic semiconductors	Organic electronics	Articulo	2012
Portable reconfigurable instrument for analytical determinations using disposable electrochemiluminescent screen-printed electrodes	Sensors and actuators b: chemical	Articulo	2012
Portable reconfigurable instrument for analytical determinations using disposable electrochemiluminescent screen-printed electrodes	Sensors and actuators b: chemical	Articulo	2012
Simulation tools for micro- and nano- devices modeling		Tesis doctoral	2012
Study of the subthreshold swing of a pmosfet as a dosimetric parameter	Sensors & actuators: a. physical	Articulo	2012
Thermal-driven nanofuses based on organometallic rotors	Chemphyschem	Articulo	2012
Thermally driven nanofuses based on organometallic rotors	Chemphyschem	Articulo	2012
Aplicación de tecnologías reconfigurables analógica y digital para instrumentación inteligente	Universidad de granada. electrónica y tecnología de computadoras	Tesis doctoral	2011
Compact optical instrument for simultaneous determination of O ₂ and CO ₂		Articulo	2011
Compact optical instrument for simultaneous determination of oxygen and carbon dioxide		Articulo	2011
Conductance and application of organic molecule pairs as nanofuses	Physical review b: covering condensed matter and materials physics	Articulo	2011
Contact effects in compact models of organic thin film transistors: application to zinc phthalocyanine-based transistors	Organic electronics	Articulo	2011
Diseño e integración de sensores ópticos en instrumentación portátil para análisis de gases	Universidad de granada. química analítica	Tesis doctoral	2011
Flexible ECG acquisition system based on analog and digital reconfigurable devices	Sensors and actuators a: physical	Articulo	2011
High doping density/high electric field, stress and heterojunction effects on the characteristics of CMOS compatible p-n junctions	Journal of the electrochemical society	Articulo	2011
Handled colorimetric for determination of heavy metal concentrations	Journal of physics: conference series	Articulo	2011
Impact of the fringing capacitance at the back of thin-film transistors	Organic electronics	Articulo	2011
Impact of Ge content and recess depth on the leakage current in strained Si(1-x)Ge(x)/Si heterojunctions	IEEE transactions on electron devices	Articulo	2011
Miniband structure and photon absorption in regimented quantum dot systems	Journal of applied physics	Articulo	2011
Mobile phone platform as portable chemical analyzer	Sensors and actuators b: chemical	Articulo	2011
Multisensor probe for soil monitoring	Sensors and actuators b-chemical	Articulo	2011
Optimization of the structure of the...	Revista española de física	Articulo	2011

Obtencion de la velocidad de la luz con un horno microondas	(r.s.e.f.)	Articulo	2011
Sensor array-based optical portable instrument for determination of ph	Sensors and actuators b: chemical	Articulo	2011
Sistema multisensorial detector de riesgos laborales	Prevention world magazine	Articulo	2011
Thermal drift reduction with multiple bias current for mosfet dosimeters	Physics in medicine and biology	Articulo	2011
Computational improvement of the normalized plane-wave method and its applications in quantum dots studies	Mathematical and computer modelling	Articulo	2010
Hand-held optical instrument for co2 in gas phase based on sensing film coating optoelectronic elements	Sensors and actuators b: chemical	Articulo	2010
Intraband photon absorption in edge-defined nanowire superlattices for optoelectronic applications	Journal of applied physics	Articulo	2010
Localization and quantification of noise sources in four-gate field-effect-transistors	International journal of numerical modelling: electronic networks, devices and fields	Articulo	2010
Readout techniques for linearity and resolution improvements in mosfet dosimeters	Sensors and actuators a: physical	Articulo	2010
A portable luminometer with a disposable electrochemiluminescent biosensor for lactate determination	Sensors	Articulo	2009
Bandgap calculation in si quantum dot arrays using a genetic algorithm	Physica e: low-dimensional systems and nanostructures	Articulo	2009
Computational study of a nanoscopic fuse based on organic molecules	Proceedings of the 13 th international workshop on computational electronics 2009	Articulo	2009
Digital and analog reconfiguration techniques for rapid smart sensor system prototyping	Sensor letters	Articulo	2009
Evaluation of the charge density in the contact region of organic thin film transistors	Journal of applied physics	Articulo	2009
Model for the injection of charge through the contacts of organic transistors	Journal of applied physics	Articulo	2009
Modelado de mecanismos físicos y las estructuras constituyentes de un transistor de efecto campo orgánico.	Universidad de granada. electrónica y tecnología de computadoras	Tesis doctoral	2009
Monte carlo simulation using the penelope code with an ant colony algorithm to study mosfet detectors	Physics in medicine and biology	Articulo	2009
Nuevas estrategias y sistemas de medida para tomografía eléctrica de capacidad	Universidad de granada. electrónica y tecnología de computadoras	Tesis doctoral	2009
On the application of periodic quantum wire nanostructures in optical sensors	Optica pura y aplicada	Articulo	2009
Phosphorescent sensing of carbon dioxide based on secondary inner-filter quenching	Analytica chimica acta	Articulo	2009
Simulated and experimental angular response of a commercial mosfet used as dosimeter	2009 spanish conference on electron devices	Capítulo de libro	2009
A low-frequency noise model for four-gate field-effect transistors	IEEE transactions on electron devices	Articulo	2008
A new approach to analyzing anisotropic and non-parabolic effects on quantum wires	Journal of computational electronics	Articulo	2008
An atomistic-based correction of the effective-mass approach for investigating quantum dots	Journal of applied physics	Articulo	2008
Development of an electrical capacitance tomography system using four rotating electrodes	Sensors and actuators a: physical	Articulo	2008
	Universidad de granada		

Diseño de un sistema dosimétrico portátil	Universidad de granada. electrónica y tecnología de computadoras	Tesis doctoral	2008
Fundamentos de teoría de circuitos para electrónica	Departamento de electrónica y tecnología de computadores	Libros	2008
Los sistemas de información científica como herramienta para medir el impacto de la investigación biomédica	Medicina clínica (cd-rom)	Articulo	2008
Nuevas tecnologías en los dispositivos electrónicos	Departamento de electrónica y tecnología de computadores	Libros	2008
Portable light-emitting diode-based photometer with one-shot optochemical sensors for measurement in the field	Review of scientific instruments	Articulo	2008
Problemas de electrónica básica	Departamento de electrónica y tecnología de computadores	Libros	2008
The use of one-shot sensors with a dedicated portable electronic radiometer for nitrate measurements in aqueous solutions	Measurement science and technology	Articulo	2008
Unified model for the injection and transport of charge in organic diodes	Journal of applied physics	Articulo	2008
Analysis of the influence of band non-parabolicity on the subband structure of a si quantum wire	Journal of computational electronics	Articulo	2007
Microcontroller-based portable instrument for stabilised optical oxygen sensor	Sensors and actuators b: chemical	Articulo	2007
Open air calibration with temperature compensation of a luminescence quenching-based oxygen sensor for portable instrumentation.	Analytical chemistry	Articulo	2007
Oxygen-sensing film coated photodetectors for portable instrumentation	Analytica chimica acta	Articulo	2007
Simulation design of electrical capacitance tomography sensors	Iet science, measurement and technology	Articulo	2007
Simple method to incorporate nonparabolicity effects in the schrodinger equation of a quantum dot	Journal of applied physics	Articulo	2007
Theory of microplasma fluctuations and noise in silicon diode in avalanche breakdown	Journal of applied physics	Articulo	2007
A simplified measurement procedure and portable electronic photometer for disposable sensors based on ionophore- chromoionophore chemistry for potassium determination	Analytical and bioanalytical chemistry	Articulo	2006
A study of envelope functions in fd-soi devices for non- parabolic bands	Journal of computational electronics	Articulo	2006
Colaborar para innovar. instrumento portátil con sensor opto- químico para medida de oxígeno	Intec urbe	Articulo	2006
Determination of the concentration of recombination centers in thin asymmetrical p-n junctions from capacitance transient spectroscopy	Applied physics letters	Articulo	2006
Evaluation of a low-cost commercial mosfet as radiation dosimeter	Sensors and actuators a: physical	Articulo	2006
Implicaciones de la no parabolicidad y la anisotropía de la banda de valencia en el comportamiento de los huecos en semiconductores y estructura de semiconductores	Universidad de granada. electrónica y tecnología de computadoras	Tesis doctoral	2006
Influence of shielding arrangement on ect sensors	Sensors	Articulo	2006
A simple model for analysing the effects of band non- parabolicity in nanostructures	Semiconductor science and technology	Articulo	2005
A solution of the effective-mass schrodinger equation in general isotropic and nonparabolic bands for the study of two- dimensional carrier gases	Journal of applied physics	Articulo	2005

Desarrollo de sensores ópticos para gases y diseño de instrumentación portátil	Universidad de granada. química analítica	Tesis doctoral	2005
Implications of nonparabolicity, warping, and inelastic phonon scattering on hole transport in pure si and ge within the effective mass framework	Journal of applied physics	Articulo	2005
Simple analytical valence band structure including warping and non-parabolicity to investigate hole transport in si and ge	Semiconductor science and technology	Articulo	2005
An efficient monte carlo procedure for studying hole transport in doped semiconductors	Journal of computational electronics	Articulo	2004
Double gate silicon on insulator transistors. a monte carlo study	Solid-state electronics	Articulo	2004
Effects of oxygen related defects on the electrical and thermal behavior of a n(+)-p junction	Journal of applied physics	Articulo	2004
Image and exchange-correlation effects in double gate silicon-on-insulator transistors	Microelectronic engineering	Articulo	2004
Sioca: sistemas de informacion en materia de calidad	Ucua (unidad para la calidad de las universidades andaluzas)	Libros	2004
Effect of polysilicon depletion charge on electron mobility in ultrathin oxide mosfets	Semiconductor science and technology	Articulo	2003
Electron mobility in double gate silicon on insulator transistors: symmetric-gate versus asymmetric-gate configuration	Journal of applied physics	Articulo	2003
Image and exchange correlation effects in double gate silicon-on-insulator transistors	Microelectronic engineering	Articulo	2003
Influence of image force and many-body correction on electron mobility in ultrathin double gate silicon on insulator inversion layers	Applied physics letters	Articulo	2003
Modeling of retention time degradation due to inelastic trap-assisted tunneling in eeprom devices	Microelectronics and reliability	Articulo	2003
Monte carlo simulation of remote-coulomb-scattering-limited mobility in metal-oxide-semiconductor transistors	Applied physics letters	Articulo	2003
Strained-si on si1-xgex mosfet mobility model	IEEE transactions on electron devices	Articulo	2003
Direct and trap-assisted elastic tunneling through ultrathin gate oxides	Journal of applied physics	Articulo	2002
Generation-recombination noise in highly asymmetrical p-n junctions	Journal of applied physics	Articulo	2002
Monte carlo simulation of electron mobility in silicon-on-insulator structures	Solid-state electronics	Articulo	2002
Simulacion de mosfets: corriente tunel de puerta, dispersion coulombiana y autocalentamiento	Universidad de granada. electrónica y tecnología de computadoras	Tesis doctoral	2002
Sistema de telecontrol vía radio para plantas de helióstatos autónomos	Universidad de Málaga. ingeniería de comunicaciones	Tesis doctoral	2002
Temperature dependence of generation-recombination noise in p-n junctions	Journal de physique iv	Articulo	2002
A simple subthreshold swing model for short channel mosfets	Solid-state electronics	Articulo	2001
Contribution of injection in current noise due to generation and recombination of carriers in p-n junctions	Journal of applied physics	Articulo	2001
Electron transport in silicon-on-insulator devices	Solid-state electronics	Articulo	2001
Electron transport in ultrathin double-gate soi devices	Microelectronic engineering	Articulo	2001
Evaluation of an equivalent hole effective mass for si/sige structures	Vlsi design	Articulo	2001
Foreword	Solid-state electronics	Articulo	2001

Monte carlo simulation of electron transport in silicon-on-insulator devices	Silicon on insulator. technology and devices x	Capítulo de libro	2001
Physical model for trap-assisted inelastic tunneling in metal-oxide-semiconductor structures	Journal of applied physics	Articulo	2001
Role of surface-roughness scattering in double gate silicon-on-insulator inversion layers	Journal of applied physics	Articulo	2001
Strained-si on si1-xgex mosfet inversion layer centroid modeling	IEEE transactions on electron devices	Articulo	2001
Deep submicrometer soi mosfet drain current model including series resistance, self-heating and velocity overshoot effects	IEEE electron device letters	Articulo	2000
Effects of the inversion-layer centroid on the performance of double-gate mosfet's	IEEE transactions on electron devices	Articulo	2000
Estudio de las propiedades electricas de un gas bidimensional de huecos en estructuras de si y sigex	Universidad de granada. electrónica y tecnología de computadoras	Tesis doctoral	2000
Influence of technological parameters on the behavior of the hole effective mass in sigex structures	Journal of applied physics	Articulo	2000
Optimum design in a jfet for minimum generation-recombination noise	Microelectronics and reliability	Articulo	2000
Optimum design in a jfet for minimum generation-recombination noise	Microelectronics and reliability	Articulo	2000
Semiempirical closed-form models for the inversion-layer centroid of a p-mos including quantum effects	Semiconductor science and technology	Articulo	2000
Simulacion y modelado de transistores mos de doble puerta	Universidad de granada. electrónica y tecnología de computadoras	Tesis doctoral	2000
The escape time of electrons from localised states	Physica status solidi (b): basic research	Articulo	2000
A computational study of the strained-si mosfet: a possible alternative for the next century electronics industry	Computer physics communications	Articulo	1999
Electron mobility in extremely thin single-gate silicon-on-insulator inversion layers	Journal of applied physics	Articulo	1999
Experimental determination of the effective mobility in nmosfets: a comparative study	Solid-state electronics	Articulo	1999
Hole confinement and energy subbands in a silicon inversion layer using the effective mass theory	Journal of applied physics	Articulo	1999
Local larmor clock approach to the escape time	Physics letters a	Articulo	1999
Surface roughness at the si-sio2 interfaces in fully depleted silicon-on-insulator inversion layers	Journal of applied physics	Articulo	1999
2-dimensional drift-diffusion simulation of superficial strained-si/si1-xgex channel metal-oxide-semiconductor field-effect transistors		Articulo	1998
A beta-sic mosfet monte carlo simulator including inversion layer quantization	Vlsi design	Articulo	1998
A model for the drain current of deep submicrometer mosfet's including electron-velocity overshoot	IEEE transactions on electron devices	Articulo	1998
An analytical model for the electron velocity overshoot effects in strained-si on si1-x mosfet's	IEEE transactions on electron devices	Articulo	1998
Development of a method for determining the dependence of the electron mobility on the longitudinal-electric field in mosfets	Vlsi design	Articulo	1998
Electron-mobility in quantized beta-sic inversion-layers		Articulo	1998
Energy dependence of the effective mass in the envelope-function approximation	Physica. b, condensed matter	Articulo	1998

function approximation			
Estudio del ruido de baja frecuencia en transistores de efecto campo	Universidad de granada. electrónica y tecnología de computadoras	Tesis doctoral	1998
I-v and small signal parameters modelling of ultrasubmicron mosfets including the significant electron-velocity overshoot effects, which are enhanced at low temperature	Journal de physique iv	Articulo	1998
Low temperature mobility improvement in high-mobility strained-si/si _{1-x} ge _x multilayer mosfets	Journal de physique iv	Articulo	1998
Monte carlo simulation of electron transport properties in extremely thin soi mosfet's	IEEE transactions on electron devices	Articulo	1998
Monte carlo simulation of non-local transport effects in strained si on relaxed si _{1-x} ge _x heterostructures	Vlsi design	Articulo	1998
Phonon-limited electron mobility in ultrathin silicon-on-insulator inversion layers	Journal of applied physics	Articulo	1998
A closed-loop evaluation and validation of a method for determining the dependence of the electron mobility on the longitudinal-electric field in mosfet's	IEEE transactions on electron devices	Articulo	1997
A detailed simulation study of the performance of beta-silicon carbide mosfets and a comparison with their silicon counterparts	Semiconductor science and technology	Articulo	1997
A monte carlo study on electron mobility in quantized cubic silicon carbide inversion layers	Journal of applied physics	Articulo	1997
Effects of the inversion layer centroid on mosfet behavior	IEEE transactions on electron devices	Articulo	1997
Electron transport properties of quantized silicon carbide inversion layers	Journal of electronic materials	Articulo	1997
Estudio de sistemas electronicos en potenciales unidimensionales. aplicacion a la estructura metal-aislante-semiconductor	Universidad de granada. electrónica y tecnología de computadoras	Tesis doctoral	1997
Estudio del ruido de baja frecuencia en transistores de efecto campo	Departamento de electrónica y tecnología de computadores	Libros	1997
Influence of mobility fluctuations on random telegraph signal amplitude in n-channel metal-oxide-semiconductor field-effect transistors	Journal of applied physics	Articulo	1997
Influence of the doping profile and deep level trap characteristics on generation-recombination noise	Journal of applied physics	Articulo	1997
Modeling effects of electron-velocity overshoot in a mosfet	IEEE transactions on electron devices	Articulo	1997
Quantum 2-dimensional calculation of time constants of random telegraph signals in metal-oxide-semiconductor structures	Physical review. b, condensed matter	Articulo	1997
Random telegraph signal amplitude in submicron n-channel metal oxide semiconductor field effect transistors	Applied physics letters	Articulo	1997
Simulacion mediante el metodo de monte carlo y modelado del transporte electronico en transistores mos de canal corto	Universidad de granada. electrónica y tecnología de computadoras	Tesis doctoral	1997
Study of the effects of a stepped doping profile in short-channel mosfet's	IEEE transactions on electron devices	Articulo	1997
The dependence of the electron-mobility on the longitudinal electric-field in mosfets	Semiconductor science and technology	Articulo	1997
Understanding the improved performance of strained si/si _{1-x} ge _x channel mosfets	Semiconductor science and technology	Articulo	1997
A monte carlo study on the electron-transport properties of high-performance strained-si on relaxed si _{1-x} ge _x channel mosfets	Journal of applied physics	Articulo	1996

A procedure for the determination of the effective mobility in an n-mosfet in the moderate inversion region	Solid-state electronics	Articulo	1996
Anomalous behaviour of the electric field in highly-compensated non-uniform semiconductors at low temperatures	Journal de physique iv	Articulo	1996
Capture process by shallow donors in silicon at low temperatures	Journal de physique iv	Articulo	1996
Coulomb scattering in strained-silicon inversion layers on si1-xgex substrates	Applied physics letters	Articulo	1996
Dependence of the electron mobility on the longitudinal electric field in mosfets	Semiconductor science and technology	Articulo	1996
Developpement d'un simulateur pour transistors a effet de champ en surface de canal tres court	Universidad abdelmalek essaadi. física	Tesis doctoral	1996
Electric field dependence of the electron capture cross section of neutral traps in sio2	Journal of the electrochemical society	Articulo	1996
Electron velocity saturation in quantized silicon carbide inversion layers	Applied physics letters	Articulo	1996
Influence of the doping profile on electron mobility in a mosfet	IEEE transactions on electron devices	Articulo	1996
Low-temperature modelling of electron-velocity-overshoot effects on 70-250 nm gate-length mosfets	Journal de physique iv	Articulo	1996
Semi-empirical model of electron mobility in mosfets in strong inversion regime	IEEE proceedings. circuits, devices and systems	Articulo	1996
Strained si/sige heterostructures at low temperatures. a monte carlo study	Journal de physique iv	Articulo	1996
A model for the quantized accumulation layer in metal-insulator-semiconductor structures	Solid-state electronics	Articulo	1995
Analisis experimental y modelizacion por el metodo de monte carlo de la captura termica de electrones por imperfecciones en semiconductores	Universidad de granada. electrónica y tecnología de computadoras	Tesis doctoral	1995
Comprehensive monte-carlo simulation of the nonradiative carrier capture process by impurities in semiconductors	Journal of applied physics	Articulo	1995
Effects of bulk-impurity and interface-charge on the electron-mobility in mosfets	Solid-state electronics	Articulo	1995
Electron trapping and detrapping in near-interfacial traps during fowler-nordheim tunneling injection at 77 k	Microelectronic engineering	Articulo	1995
Estudio de la captura térmica por defectos en si y gaas	Departamento de electrónica y tecnología de computadores	Libros	1995
Influence of the oxide-charge distribution profile on electron-mobility in mosfets	IEEE transactions on electron devices	Articulo	1995
Influence of the position of deep levels on generation-recombination noise	Applied physics letters	Articulo	1995
Monte-carlo simulation of multiphonon capture mechanism by deep neutral impurities in si in the presence of an electric-field	Journal of applied physics	Articulo	1995
Monte-carlo study of the statistics of electron-capture by shallow donors in silicon at low-temperatures	Physical review. b, condensed matter	Articulo	1995
Oxide charge space correlation in inversion-layers .2. 3-dimensional oxide charge-distribution	Semiconductor science and technology	Articulo	1995
Universality of electron-mobility curves in mosfets - a monte-carlo study	IEEE transactions on electron devices	Articulo	1995
A comprehensive model for coulomb scattering in inversion-layers	Journal of applied physics	Articulo	1994
Analisis y modelizacion de la movilidad en transistores mos	Departamento de electrónica y tecnología de computadores	Libros	1994

tecnología de computadores			
Estudio de las propiedades de transporte de electrones en laminas de inversion semiconductoras por el metodo de monte carlo	Universidad de granada. electrónica y tecnología de computadoras	Tesis doctoral	1994
Estudio eléctrico comparativo entre uniones p+-n abruptas y graduales con centros profundos	Homenaje a vicente aleixandre	Capítulo de libro	1994
Estudio experimental de la movilidad de los electrones en transistores metal-oxido-semiconductor	Universidad de granada. electrónica y tecnología de computadoras	Tesis doctoral	1994
Accurate determination of majority thermal-capture cross-sections of deep impurities in p-n-junctions	Journal of applied physics	Articulo	1993
Accurate determination of silicon inversion layer mobility by the monte carlo method	Simulation of semiconductor devices and processes	Articulo	1993
An analytical expression for phonon limited mobility in silicon inversion layers	Journal of applied physics	Articulo	1993
Influence of the interface-state density on the electron mobility in silicon inversion layers	Journal of electronic materials	Articulo	1993
A high-frequency bidirectional capacitance method to study the evolution of the interface state density generated at low temperatures	Solid-state electronics	Articulo	1992
A non destructive method to determine impurity profiles in non-abrupt p-n junctions with deep levels	Solid-state electronics	Articulo	1992
Comportamiento eléctrico de uniones p+-n no abruptas con centros profundos	Departamento de electrónica y tecnología de computadores	Libros	1992
Efecto de la densidad de carga superficial sobre la movilidad efectiva en mosfet	Departamento de electrónica y tecnología de computadores	Libros	1992
Evolution of electrical magnitudes in gradual p-n junctions with deep levels during the emission of majority carriers	Journal of applied physics	Articulo	1992
Importance of the choice of the profile model for a p-n junction in the location of the deep levels	Journal of electronic materials	Articulo	1992
Influencia de la concentracion de centros profundos en las propiedades electricas de uniones p-n no abruptas. aplicacion al sistema si:pt	Universidad de granada. electrónica y tecnología de computadoras	Tesis doctoral	1992
Analisis de la degradacion del sistema si-sio2 producida por inyeccion fowler-nordheim	Universidad de granada. electrónica y tecnología de computadoras	Tesis doctoral	1991
Analysis of the effects of constant current fowler-nordheim tunneling injection with charge-trapping inside the potential barrier	Journal of applied physics	Articulo	1991
Degradación del sistema si-sio2 producida por inyección fowler-nordheim	Departamento de electrónica y tecnología de computadores	Libros	1991
Analisis of a reverse-biased linear graded junction with high concentration of deep impurities	Solid-state electronics	Articulo	1990
Influencia de los niveles creados por el platino en una unión gradual lineal	Departamento de electrónica y tecnología de computadores	Libros	1990

	Título proyecto	Tipo	Inicio	Fin
1	Convenio específico de impartición de docencia en asignaturas del programa académico de ies.	Contrato	3/13/16	7/12/20
2	Colaboracion en el ámbito de los alimentos funcionales y los nutraceuticos	Contrato	3/21/16	6/20/20
3	Plataformas analíticas y microrreactores para seguridad agroalimentaria y sostenibilidad medioambiental	Proyecto	3/1/17	12/31/19
4	Transporte y optoelectrónica de superredes de puntos cuánticos como elemento integrante de células solares	Proyecto	3/30/16	12/30/19
5	Simulaciones de dispositivo de capas de perovskitas de alto rendimiento fotovoltaico	Proyecto	3/30/16	12/29/19
6	Transporte y optoelectronica de superredes de puntos cuanticos como elemento integrante de celulas solares	Proyecto	3/30/16	12/29/19
7	Convenio marco de colaboración para la certificación de proyectos i+d+i	Contrato	3/15/12	12/14/18
8	Design and development of an innovative 4-channel led driver	Contrato	3/6/17	8/6/18
9	Sensobed	Contrato	3/12/17	7/31/18
10	Uso de equipos científicos situados en el departamento de fisiología vegetal.	Contrato	3/1/16	12/31/17
11	Specification analysis, concept creation, system designs, development and design, validation and optimization of sensor systems and documentation and preparation of presentation materials	Contrato	3/1/16	6/30/17
12	Impartición de docencia por parte de profesores de la universidad de granada en cursos organizados por el centro de lenguas modernas	Contrato	3/8/12	3/7/17
13	Dispositivos analíticos impresos sobre sustrato flexible	Proyecto	3/1/14	12/31/16
14	Modelado de celulas solares basadas en puntos cuanticos y semiconductores organicos	Proyecto	3/1/14	12/31/16
15	Cps-4-lot - cps for an integrated and trustable internet of things	Proyecto	3/12/16	4/13/16
16	Alfa2: desarrollo de plataforma sensora para drones	Contrato	3/1/14	3/31/16
17	Inclusión en el calzado de la unidad de procesamiento para unas plantillas instrumentadas completamente inalámbricas	Proyecto	3/30/15	12/31/15
18	Modelado de celulas solares basadas en puntos cuanticos y semiconductores organicos	Proyecto	3/1/14	12/31/15
19	¿to prevent and/or reduce icing of the installations of sierra nevada ski resort¿	Contrato	3/1/14	12/31/15
20	Desarrollo de instrumentación portátil para lenguas electrónicas de tipo óptico para detección de explosivos	Proyecto	3/1/14	11/1/15
21	Desarrollo de instrumentación portátil para lenguas electrónicas de tipo óptico para detección de explosivos	Proyecto	3/1/14	11/1/15
22	Sbp - smart business park	Contrato	3/1/14	5/31/15
23	Sistema fotovoltaico autónomo con inyección a red. (proyecto financiado agencia idea)	Contrato	3/1/13	4/30/15
24	Sistema hibrido de gestión integral de energía (shgie)	Contrato	3/11/14	3/30/15
25	Android barcode	Contrato	3/25/14	2/28/15
26	Objeto android barcode	Contrato	3/1/14	2/28/15
27	Estudio de sistemas optoelectrónicos de puntos cuánticos ordenados de semiconductor y su degradación	Proyecto	3/1/14	12/31/14
28	Caracterización de radfets para sistema dosimétrico portátil	Proyecto	3/1/14	12/31/14
29	Caracterización de radfets para sistema dosimetrico portátil	Proyecto	3/1/14	12/31/14
30	Estudio de sistemas optoelectrónicos de puntos cuánticos ordenados de semiconductor y su degradación	Proyecto	3/28/14	12/31/14
31	Caracterización de radfets para sistema dosimétrico portátil	Proyecto	3/28/14	12/31/14
32	Sistema para la clarificación de aceite de oliva en decantadores mediante medida de impedancia	Proyecto	3/28/14	12/31/14

33	Sistema para la clarificación de aceite de oliva en decantadores mediante medida de impedancia	Proyecto	3/28/14	12/31/14
34	Modelado del comportamiento de sistemas ordenados de puntos cuánticos semiconductores para aplicaciones en células solares de banda intermedia	Proyecto	3/1/13	12/31/13
35	Desarrollo de un sistema dosimétrico basado en mosfets comerciales para rio	Proyecto	3/1/13	12/31/13
36	Simulación del transporte de portadores de carga en dispositivos electrónicos basados en nanoheteroestructuras con tecnologías de si/sige, ingan/gan y orgánicos	Proyecto	3/1/11	12/31/13
37	Modelado del comportamiento de sistemas ordenados de puntos cuánticos semiconductores para aplicaciones en células solares de banda intermedia	Proyecto	3/1/13	12/31/13
38	Desarrollo de un sistema dosimétrico basado en mosfets comerciales para rio	Proyecto	3/1/13	12/31/13
39	Monitorización de la estabilidad de salsas de mesa	Contrato	3/1/11	10/31/13
40	Portable instrumentation based on image processing for chemical analysis using optical sensors	Proyecto	3/1/12	5/31/13
41	Tecnologías eficientes e inteligentes orientadas a la salud y al confort en ambientes interiores	Contrato	3/16/09	12/31/12
42	Instrumentacion portatil para lectura de matrices de sensores	Proyecto	3/1/10	12/31/12
43	Contrato para actividades de apoyo tecnológico y/o asesoría entre la universidad de granada y el parque de las ciencias para el "robotespian";	Contrato	3/26/10	10/26/11
44	Desarrollo tecnológico de equipos inteligentes de seguridad en el ámbito laboral y doméstico	Convenio	3/1/10	3/31/11
45	Desarrollo de herramientas de simulacion para micro y nanodispositivos mos	Proyecto	3/1/07	9/30/10
46	Curso vigilancia, valorización y explotación tecnológica	Contrato	3/28/04	4/29/09
47	Desarrollo de prototipos de instrumentacion portatil reconfigurable para sensores con respuesta optica	Proyecto	3/31/05	12/31/08
48	Realización de un simulador bidimensional de celulas solares multiunión basadas en semiconductores iii-v para sistemas de concentración	Contrato	3/22/05	7/31/08
49	Desarrollo de un sistema de evaluación de patrones temporales de actividades físicas (marcha, carrera y salto) mediante un sistema de detección de apoyos	Convenio	3/5/07	9/4/07
50	Actividades para potenciar la red de transferencia de resultados de investigación en andalucía	Contrato	3/1/04	6/30/05
51	Puesta en marcha de proyectos de investigación entre las otris andaluzas y las empresas andaluzas	Convenio	3/1/04	12/31/04
52	Articulación y promoción de la transferencia de tecnología en andalucía	Convenio	3/1/01	6/30/04
53	Convenio ejecutivo entre la consejeria de educacion y ciencia y la universidad de granada para la implementacion y explotacion del sistema de informacion cientifica de andalucia	Convenio	3/16/02	12/31/03
54	Efecto de la sobrepresión de la nieve sobre los organismos subyacentes	Contrato	3/28/02	10/27/03
55	Expediente diva 2002/01 modelo dicotómico de negociación tripartita	Contrato	3/16/02	12/31/02
56	Estudio y modelización de las capas de inversión y del transporte eléctrico de huecos en transistores homogéneos y compuestos de silicio. aplicación a pmos de canal corto.	Proyecto	3/30/99	12/30/02
57	Confección de estudios e informes para evaluar la información contenida en las fichas técnicas de principios activos que forman parte de especialidades farmaceuticas de uso veterinario	Convenio	3/14/02	11/30/02
58	Expediente diva 2002/02 revision metodologica de proyectos de investigacion	Contrato	3/20/02	6/20/02
59	Estudio de las propiedades de transporte en gases bidimensionales de electrones y huecos confinados en heteroestructuras reales	Proyecto	3/11/96	9/11/99
60	Modelización de transistores mos para aplicaciones analógicas	Proyecto	3/1/95	7/1/98
61	1. determinación de las propiedades físicas y eléctricas de dispositivos de test para una tecnología cmos/nmos	Proyecto	3/1/91	7/27/92

62	Semana de la ciencia y la tecnología en granada	Proyecto	11/5/01	
63	Desarrollo de un simulador de transitorios pmos. estudio del transporte de huecos y el ruido de baja frecuencia	Proyecto	12/13/04	
64	Realización de un simulador bidimensional de células solares multiunión basadas en semiconductores iii-v para sistemas de concentració15	Contrato	3/20/07	
65	Convenio ejecutivo entre la consejería de educación y ciencia y la universidad de granada (sistema de información científico de andalucía)	Convenio	6/26/01	

Actividades 9

Titulo actividad	Entidad	Tipo	Fecha
Evaluador de proyectos del 7º pm de la unión europea	Comisión europea	Experiencia en evaluación	Jun 25, 2007
Orden de incentivos a la innovación y al desarrollo empresarial de mayo de 2005		Experiencia en evaluación	Jun 1, 2005
Orden de incentivos a la innovación y al desarrollo empresarial de abril de 2007		Experiencia en evaluación	May 1, 2007
Miembro de la comisión de autoevaluación de las titulaciones: ingeniería informática, ingeniería técnica en informática de gestión, ingeniería técnica en informática de gestión		Experiencia en evaluación	Oct 1, 2001
Miembro del comité local de primer congreso interuniversitario de futuros ingenieros en telecomunicación, electrónica e informática (cifitei) proyecto de innovación docente 09-234 'difusión del conocimiento basado en bolonia'	Universidad de granada	Foros y comités internacionales	May 21, 2010
Desarrollo de una placa con diversos sensores dosimétricos para microsátélite (cubesat	Instituto de astrofísica de andalucía	Colaboración con centros i+d	Jun 1, 2015
Revisora habitual de la revista sensors and actuators a: physical		Experiencia en evaluación	Oct 1, 2013
Miembro de comité organizador en student branch, women in engineering and young professionals in ieee (swyp 2017)	ieee spain	Comité científico en sociedad ci	Mar 8, 2017
Editor asociado special issue revista científica sensors		Comités científicos de revista	Sep 1, 2017

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