



Electrónica y Tecnología de Computadores

Áreas de conocimiento: Electrónica, Tecnología Electrónica

Director: Juan Antonio López Villanueva

Secretario: Luis Parrilla Roure

Página web: <http://electronica.ugr.es>

Profesorado: CU: 8, PTU: 14, PTEU: 0, PDI Contratado y Otros: 22.

Tesis leídas

- Compact Modelling of Physical Mechanisms in Organic Solar Cells

Doctorando: Pilar López Varo

Director: Juan Antonio Jiménez Tejada y Jamal M. Deen

Fecha de lectura: 10 de Enero de 2017

- Development of a Multisubband Monte Carlo Simulator for Nanometric Transistors

Doctorando: Cristina Medina Bailón

Director: Carlos Sampedro Matarán y Francisco J. Gámiz Pérez

Fecha de lectura: 2 de Febrero de 2017

Grupos de Investigación.

TIC127 DITEC - TECNICAS DIGITALES

- Responsable: LUIS PARRILLA ROURE

TIC105 GRUPO DE INVESTIGACION EN DISPOSITIVOS ELECTRONICOS

- Responsable: JUAN ENRIQUE CARCELLER BELTRAN

TIC216 GRUPO DE INVESTIGACIÓN EN NANOELECTRÓNICA

- Responsable: FRANCISCO J GAMIZ PEREZ

FQM381 Nanoestructuras, propiedades cuánticas y aplicaciones tecnológicas

- Responsable: JUAN B. ROLDAN ARANDA

Dirección y participación en Proyectos I+D

- 2017 Desarrollo del subsistema de potencia para CubeSats y NanoSatélites, , 01/01/2017-31/12/2018

Responsable ANDRÉS MARÍA ROLDÁN ARANDA

Investigador/a JUAN B. ROLDAN ARANDA

Investigador/a FRANCISCO JIMENEZ MOLINOS

- 2017 IMPLEMENTATION OF A NOVEL PLATFORM TO MONITOR TUMOUR HETEROGENEITY AS A CRUCIAL DETERMINANT FOR INDIVIDUALIZED DIAGNOSTIC AND THERAPEUTIC OUTCOME., , 01/01/2017-

31/12/2019

Investigador/a FRANCISCO J GAMIZ PEREZ

- 2017 Plataformas analíticas y microrreactores para seguridad agroalimentaria y sostenibilidad medioambiental, , 01/01/2017-31/12/2019

Investigador/a ANTONIO MARTINEZ OLMO

Responsable ALBERTO JOSE PALMA LOPEZ

Investigador/a MIGUEL ÁNGEL CARVAJAL RODRÍGUEZ

Investigador/a PABLO ESCOBEDO ARAQUE

- 2017 PSI2016-75086-P: El conductor Nace y se Hace: Percepción de Peligros y Asunción de Riesgos: Influencia del Entrenamiento, los Estilos de Conducción y el Clima Familiar en la Conducción, , 15/01/2017-15/01/2020

Responsable PEDRO GARCÍA FERNÁNDEZ

- 2016 Revolutionary Embedded Memory for Internet of Things Devices and Energy Reduction, , 01/01/2016-31/12/2018

Investigador/a CARLOS SAMPEDRO MATARÍN

Investigador/a LUCA DONETTI

Investigador/a JOSÉ LUIS PADILLA DE LA TORRE

Investigador/a ANDRES GODOY MEDINA

Investigador/a FRANCISCO JAVIER GARCÍA RUIZ

Investigador/a NOEL RODRÍGUEZ SANTIAGO

- 2016 Sistema Integral de Monitorización de señales biométricas: aplicación para seguimiento del estado del

Militar SIMMA, , 22/04/2016-22/04/2017

Investigador/a DANIEL GONZÁLEZ CASTRO

Investigador/a FRANCISCO JAVIER GARCÍA RUIZ

Investigador/a FRANCISCO MANUEL GOMEZ CAMPOS

Investigador/a LUIS PARRILLA ROURE

Investigador/a ENCARNACIÓN CASTILLO MORALES

Responsable ANTONIO GARCÍA RÍOS

Investigador/a DIEGO PEDRO MORALES SANTOS



- 2016 DESARROLLO DE PANELES SOLARES DESPLEGABLES PARA CUBESATS Y PEQUEÑOS SATELITES:
DISEÑO, FABRICACIÓN, CARACTERIZACIÓN Y VALIDACIÓN (DEEPSAT), , 01/07/2016-31/12/2018
Responsable ANDRÉS MARÍA ROLDÁN ARANDA
Investigador/a JUAN B. ROLDAN ARANDA
Investigador/a JUAN ANTONIO LOPEZ VILLANUEVA
Investigador/a FRANCISCO JIMENEZ MOLINOS
- 2016 REMINDER - Revolutionary embedded memory for internet of things devices and energy reduction, Competitivo, 01/01/2016-31/12/2018
Responsable FRANCISCO J GAMIZ PEREZ
Investigador/a CARLOS NAVARRO MORAL
- 2016 Sistemas de litografía, grabado selectivo y deposición física de películas delgadas para el laboratorio de grafeno y semiconductores bidimensionales., Competitivo, 01/01/2016-31/12/2017
Responsable FRANCISCO J GAMIZ PEREZ
- 2016 CPS-4-IoT - CPS for an Integrated and Trustable Internet of Things, Competitivo, 12/04/2016-13/04/2016
Responsable DIEGO PEDRO MORALES SANTOS
- 2016 PLATAFORMAS ANALITICAS Y MICRORREACTORES PARA SEGURIDAD AGROALIMENTARIA Y SOSTENIBILIDAD MEDIOAMBIENTAL, Competitivo, 30/12/2016-29/12/2019
Participante PABLO ESCOBEDO ARAQUE
Investigador/a JESUS BANQUERI OZAEZ
- 2016 TRANSPORTE Y OPTOELECTRONICA DE SUPERREDES DE PUNTOS CUANTICOS COMO ELEMENTO INTEGRANTE DE CELULAS SOLARES, Competitivo, 30/12/2016-29/12/2019
Investigador/a JUAN ENRIQUE CARCELLER BELTRAN
Responsable FRANCISCO MANUEL GOMEZ CAMPOS
- 2016 SIMULACIONES DE DISPOSITIVO DE CAPAS DE PEROVSKITAS DE ALTO RENDIMIENTO FOTOVOLTAICO, Competitivo, 30/12/2016-29/12/2019
Participante PILAR LÓPEZ VARO
Responsable JUAN ANTONIO JIMENEZ TEJADA
- 2016 EL CONDUCTOR NACE Y SE HACE. PERCEPCION DE PELIGROS Y ASUNCION DE RIESGOS: INFLUENCIA DEL ENTRENAMIENTO, LOS ESTILOS DE CONDUCCION Y EL CLIMA FAMILIAR EN DE LA CONDUCCION, Competitivo, 30/12/2016-29/12/2019
Responsable PEDRO GARCÍA FERNÁNDEZ
- 2016 Transporte y optoelectrónica de superredes de puntos cuánticos como elemento integrante de células solares, , 30/12/2016-30/12/2019
Responsable FRANCISCO MANUEL GOMEZ CAMPOS
- 2016 Desarrollo de un radar ligero de banda ultraancha para detección de obstáculos y presencia en entornos, , 22/04/2016-22/10/2017
Coordinador CARLOS SAMPEDRO MATARÍN
Investigador/a CARLOS MÁRQUEZ GONZÁLEZ
Investigador/a NOEL RODRÍGUEZ SANTIAGO
Investigador/a FRANCISCO J GAMIZ PEREZ

Contratos de investigación

- 2016 Second stage of research and Development Project to prevent and/or reduce icing of the installations of Sierra Nevada Ski resort, , 20/09/2016-31/10/2017
Investigador/a ANTONIO MARTINEZ OLMO
Investigador/a ALBERTO JOSE PALMA LOPEZ
- 2016 Uso de equipos científicos situados en el Departamento de Fisiología Vegetal., , 01/01/2016-31/12/2017
Responsable JESUS BANQUERI OZAEZ
- 2016 Convenio específico de impartición de docencia en asignaturas del Programa Académico de IES., , 13/07/2016-12/07/2020
Responsable JESUS BANQUERI OZAEZ
- 2016 Specification analysis, Concept creation, System Designs, Development and Design, Validation and optimization of sensor systems and Documentation and preparation of presentation materials, , 01/10/2016-30/06/2017
Investigador/a NOEL RODRÍGUEZ SANTIAGO
Investigador/a FRANCISCO JAVIER GARCÍA RUIZ
Investigador/a ENCARNACIÓN CASTILLO MORALES
Responsable DIEGO PEDRO MORALES SANTOS
- Investigador/a LUIS PARRILLA ROURE
Investigador/a ANTONIO GARCÍA RÍOS
- 2016 Autonomous Electronic Platform for EMC tests, , 25/11/2016-28/02/2017
Responsable ANDRÉS MARÍA ROLDÁN ARANDA
- 2016 Colaboracion en el ámbito de los alimentos funcionales y los nutracéuticos, , 21/06/2016-20/06/2020



Responsable JESUS BANQUERI OZAEZ

Publicaciones en revistas

- 2017 Artículo: Effects of the extension of conductive filaments, a simulation approach, *Journal of Vacuum Science&Technology B*, 35, 1, 01A105-
FRANCISCO JIMENEZ MOLINOS
JUAN B. ROLDAN ARANDA
PEDRO GARCIA FERNANDEZ
- 2017 Artículo: In-depth study of the physics behind resistive switching in TiN/Ti/HfO₂/W structures, *Journal of Vacuum Science&Technology B*, 35, 1, 01A110-1-01A110-5
FRANCISCO JIMENEZ MOLINOS
GERARDO GONZALEZ CORDERO
JUAN B. ROLDAN ARANDA
- 2017 Artículo: A new area-efficient BCD-digit multiplier, *Digital Signal Processing (Print)*, 62, 1, 1-10
ANTONIO GARCIA RIOS
ANTONIO LLORIS RUIZ
DIEGO PEDRO MORALES SANTOS
ENCARNACION CASTILLO MORALES
LUIS PARRILLA ROURE
- 2017 Artículo: Systematic Method for Electrical Characterization of Random Telegraph Noise in MOSFETs, *Solid-State Electronics*, 128, 1, 115-120
CARLOS MARQUEZ GONZALEZ
FRANCISCO J GAMIZ PEREZ
NOEL RODRIGUEZ SANTIAGO
- 2017 Artículo: Flexible Passive near Field Communication Tag for Multigas Sensing, *Analytical chemistry (Washington)*, 89, , 1697-1703
ALBERTO JOSE PALMA LOPEZ
ANTONIO MARTINEZ OLMO
MIGUEL ANGEL CARVAJAL RODRIGUEZ
PABLO ESCOBEDO ARAQUE
- 2017 Artículo: Polynomial pattern finding in scattered data, *Journal of Computational and Applied Mathematics*, 318, , 107-116
ANDRES GODOY MEDINA
CARLOS SAMPEDRO MATARIN
CRISTINA MEDINA BAILON
FRANCISCO J GAMIZ PEREZ
LUCA DONETTI
- 2017 Artículo: Further on 'Broadband electronically tunable reflection-based phase shifter for active-steering microwave reflectarray systems in Ku-Band': prototype validation, *Journal of Electromagnetic Waves and Applications*, 31, 4, 427-432
JOSÉ LUIS PADILLA DE LA TORRE
- 2017 Artículo: 16S rRNA gene-based characterization of bacteria potentially associated with phosphate and carbonate precipitation from a granular autotrophic nitrogen removal bioreactor, *Applied microbiology and biotechnology*, 101, , 817-829
ALMUDENA RIVADENEYRA TORRES
- 2017 Artículo: A physically based model for resistive memories including a detailed temperature and variability description, *Microelectronic Engineering*, 178, , 26-29
FRANCISCO JIMENEZ MOLINOS
GERARDO GONZALEZ CORDERO
JUAN B. ROLDAN ARANDA
- 2017 Artículo: Compact Modeling of Organic Thin-Film Transistors with Solution Processed Octadecyl Substituted Tetrabenzotriazaporphyrin as an Active Layer, *IEEE Transactions on Electron Devices*, 64, 6, 2629-2634
JUAN ANTONIO JIMENEZ TEJADA
PILAR LOPEZ VARO
- 2017 Artículo: Electromagnetic near field inhomogeneity reduction for image acquisition optimization in high resolution multi-channel magnetic resonance imaging (MRI) systems, *IEEE Access*, 5, -, 5149-5157
JOSÉ LUIS PADILLA DE LA TORRE
- 2017 Artículo: Are Situation Awareness and Decision-Making in driving totally conscious processes?, *Transportation Research. Part F: Traffic Psychology and Behaviour*, 44, , 168-179



PEDRO GARCÍA FERNÁNDEZ

- 2017 Artículo: Human neuro-activity for securing Body Area Networks: application to People-centric, Internet of Things, IEEE Communications Magazine, 55, 2, 62-67

JOSÉ LUIS PADILLA DE LA TORRE

- 2017 Artículo: Implementation of Band-to-Band Tunneling Phenomena in a Multi-Subband Ensemble Monte Carlo Simulator: Application to Silicon TFETs, IEEE Transactions on Electron Devices, , , -

CARLOS SAMPEDRO MATARÍN

CRISTINA MEDINA BAILÓN

FRANCISCO J GAMIZ PEREZ

JOSÉ LUIS PADILLA DE LA TORRE

- 2017 Artículo: Boundary condition model for the simulation of organic solar cells, Organic electronics, 48, , 85-95

JUAN ANTONIO JIMENEZ TEJADA

JUAN ENRIQUE CARCELLER BELTRAN

PILAR LÓPEZ VARO

- 2017 Artículo: Effects of Ion Distributions on Charge Collection in Perovskite Solar Cells, ACS Energy Letters, 2, , 1450-1453

JUAN ANTONIO JIMENEZ TEJADA

PILAR LÓPEZ VARO

- 2016 Artículo: Electrical characterization of Random Telegraph Noise in Fully-Depleted Silicon-On-Insulator MOSFETs under extended temperature range and back-bias operation, Solid-State Electronics, 117, , 60-65

CARLOS MÁRQUEZ GONZÁLEZ

FRANCISCO J GAMIZ PEREZ

NOEL RODRÍGUEZ SANTIAGO

- 2016 Artículo: Hardware activation by means of PUFs and Elliptic Curve Cryptography in Field-Programmable Devices, ELECTRONICS, 5, 1, -

ANTONIO GARCÍA RÍOS

DIEGO PEDRO MORALES SANTOS

ENCARNACIÓN CASTILLO MORALES

LUIS PARRILLA ROURE

- 2016 Artículo: Proactive Listening to a Training Commentary improves hazard prediction, Safety Science, 82, Q1, 144-154

PEDRO GARCÍA FERNÁNDEZ

- 2016 Artículo: A new parameter to characterize the charge transport regime in Ni/HfO₂/Si-n+-based RRAMs, Solid-State Electronics, 118, , 56-60

FRANCISCO JIMENEZ MOLINOS

JUAN B. ROLDAN ARANDA

- 2016 Artículo: A review of CMOS photodiode modeling and the role of the lateral photoresponse, IEEE Transactions on Electron Devices, 63, , 16-25

JUAN B. ROLDAN ARANDA

- 2016 Artículo: Development of a printed sensor for volatile organic compound detection at _microg/L-level, Sensors and Actuators B, 230, , 115-122

ALBERTO JOSE PALMA LOPEZ

ALMUDENA RIVADENEYRA TORRES

JOSÉ FERNÁNDEZ SALMERÓN

- 2016 Artículo: Band-to-band tunneling distance analysis in the heterogate electron-hole bilayer tunnel field-effect transistor, Journal of Applied Physics. American Institute of Physics, 119, 4, 045705-1-045705-5

FRANCISCO J GAMIZ PEREZ

JOSÉ LUIS PADILLA DE LA TORRE

- 2016 Artículo: Gait recording with inertial sensors - How to determine initial and terminal contact, Journal Of Biomechanics (Online), 43, 3, 332-337

FERNANDO MARTÍNEZ MARTÍ

MIGUEL ÁNGEL CARVAJAL RODRÍGUEZ

- 2016 Artículo: Printed electrodes structures as capacitive humidity sensors: A comparison, Sensors and Actuators A:Physical, 244, , 56-65

ALBERTO JOSE PALMA LOPEZ

ALMUDENA RIVADENEYRA TORRES

JOSÉ FERNÁNDEZ SALMERÓN

JUAN ANTONIO LOPEZ VILLANUEVA

- 2016 Artículo: Evaluation of a reconfigurable portable instrument for copper determination based on luminescent carbon dots, Analytical and Bionalytical Chemistry, 408, , 3013-3020

ALBERTO JOSE PALMA LOPEZ

ANTONIO MARTINEZ OLMO

DIEGO PEDRO MORALES SANTOS



ENCARNACIÓN CASTILLO MORALES

- 2016 Artículo: Charge transfer processes at the semiconductor/electrolyte interface for solar fuel production: insight from impedance spectroscopy, Journal of Material Chemistry A, 4, 8, 2873-2879

JUAN ANTONIO JIMENEZ TEJADA

PILAR LÓPEZ VARO

- 2016 Artículo: Charge density at the contacts of symmetric and asymmetric organic diodes, Organic electronics, 35, , 74-86

JUAN ANTONIO JIMENEZ TEJADA

PILAR LÓPEZ VARO

- 2016 Artículo: Electrical Characterization and Conductivity Optimization of Laser Reduced Graphene Oxide on Insulator using Point-Contact Methods, RSC ADVANCES, 6, 52, 46231-46237

CARLOS MÁRQUEZ GONZÁLEZ

FRANCISCO J GAMIZ PEREZ

NOEL RODRÍGUEZ SANTIAGO

- 2016 Artículo: Combinatorial Investigation and Modelling of MoO₃ Hole-Selective Contact in TiO₂|Co₃O₄|MoO₃ All-Oxide Solar Cells, Advanced Materials Interfaces, 3, 1, (1) 1500405-(7) 1500405

PILAR LÓPEZ VARO

- 2016 Artículo: Co₃O₄ Based All-Oxide PV: A Numerical Simulation Analyzed Combinatorial Material Science Study, The Journal of Physical Chemistry C, 120, 17, 9053-9060

PILAR LÓPEZ VARO

- 2016 Artículo: Understanding the synergistic effect of WO₃-BiVO₄ heterostructures by impedance spectroscopy, Physical Chemistry Chemical Physics, 18, 13, 9255-9261

PILAR LÓPEZ VARO

- 2016 Artículo: Flexible passive tag based on light energy harvesting for gas thresholddetermination in sealed environments, SENSORS AND ACUATORS B: CHEMICAL, 236, , 226-232

ALBERTO JOSE PALMA LOPEZ

ANTONIO MARTINEZ OLmos

MIGUEL ÁNGEL CARVAJAL RODRÍGUEZ

PABLO ESCOBEDO ARAQUE

- 2016 Artículo: Passive UHF RFID tag for multispectral assessment, Sensors, 16, 7, 1085-

ALBERTO JOSE PALMA LOPEZ

ANTONIO MARTINEZ OLmos

JOSÉ FERNÁNDEZ SALMERÓN

MIGUEL ÁNGEL CARVAJAL RODRÍGUEZ

PABLO ESCOBEDO ARAQUE

- 2016 Artículo: Thermal compensation technique using the parasitic diode for DMOS transistors, Sensors and Actuators A:Physical, 249, , 249-255

ALBERTO JOSE PALMA LOPEZ

ANTONIO MARTINEZ OLmos

MIGUEL ÁNGEL CARVAJAL RODRÍGUEZ

- 2016 Artículo: Dose verification system based on MOS transistor for real-time measurement, Sensors and Actuators A: Physical, 247, , 269-276

ALBERTO JOSE PALMA LOPEZ

JESUS BANQUERI OZAEZ

MIGUEL ÁNGEL CARVAJAL RODRÍGUEZ

- 2016 Artículo: Validation of Instrumented Insoles for Measuring height in vertical jump, International Journal of Sports Medicine, 37, , 374-381

ALBERTO JOSE PALMA LOPEZ

DIEGO PEDRO MORALES SANTOS

FERNANDO MARTÍNEZ MARTÍ

MIGUEL ÁNGEL CARVAJAL RODRÍGUEZ

- 2016 Artículo: Broadband planar multilayered reflectarray based on circular stacked patches and reflective printed circuits for microwave communication systems, Journal of Electromagnetic Waves And Applications, 30, 17, 1-10

JOSÉ LUIS PADILLA DE LA TORRE

- 2016 Artículo: Circularly polarised broadband planar lightweight reflectarray with eligible pattern for satellite communications in Ku-band, IET Microwaves, Antennas & Propagation, 11, 4, 513-518

JOSÉ LUIS PADILLA DE LA TORRE

- 2016 Artículo: Electronically Reconfigurable Reflective Phase Shifter for Circularly Polarized Reflectarray Systems, IEEE Microwave and Wireless Components Letters, 26, 9, 705-707

JOSÉ LUIS PADILLA DE LA TORRE

- 2016 Artículo: Design rules for antenna placement on MIMO system, Journal of Electromagnetic Waves And Applications, 30, 13, 1731-1739



JOSÉ LUIS PADILLA DE LA TORRE

- 2016 Artículo: Physical aspects of ferroelectric semiconductors for photovoltaic solar energy conversion, Physics Reports, 653, , 1-40

JUAN ANTONIO JIMENEZ TEJADA

PILAR LÓPEZ VARO

- 2016 Artículo: Comment on "Optimization of a Pocketed Dual-Metal-Gate TFET by Means of TCAD Simulations Accounting for Quantization-Induced Bandgap Widening", IEEE Transactions on Electron Devices, 63, 12, 5077-5078

FRANCISCO J GAMIZ PEREZ

JOSÉ LUIS PADILLA DE LA TORRE

- 2016 Artículo: A new compact model for bipolar RRAMs based on truncated-cone conductive filaments—a Verilog-A approach, Semiconductor Science and Technology (Print), 31, 11, 115013

FRANCISCO JIMENEZ MOLINOS

GERARDO GONZÁLEZ CORDERO

JUAN B. ROLDAN ARANDA

- 2016 Artículo: Comments on 'Fast architecture for decimal digit multiplication', Microprocessors and Microsystems. Elsevier, 47, , 441-444

ANTONIO GARCÍA RÍOS

ANTONIO LLORIS RUIZ

DIEGO PEDRO MORALES SANTOS

ENCARNACIÓN CASTILLO MORALES

LUIS PARRILLA ROURE

- 2016 Artículo: Revivals of electron currents and topological-band insulator transitions in 2D gapped Dirac materials, Europhysics Letters (Online), 115, , 20008-

JUAN B. ROLDAN ARANDA

- 2016 Artículo: Correlation of Plastic Strain Energy and Acoustic Emission Energy in Reinforced Concrete Structures, Applied Sciences, 6, 84, -

ANDRÉS MARÍA ROLDÁN ARANDA

- 2016 Artículo: Impact of non uniform strain configuration on transport properties for FD14+ devices, Solid-State Electronics, 115, Part B, 232-236

ANDRES GODOY MEDINA

CARLOS SAMPEDRO MATARÍN

CRISTINA MEDINA BAILÓN

FRANCISCO J GAMIZ PEREZ

LUCA DONETTI

- 2016 Artículo: Switching Behavior Constraint in the Heterogate Electron-Hole Bilayer Tunnel FET: the Combined Interplay Between Quantum Confinement Effects and Asymmetric Configurations, IEEE Transactions on Electron Devices, 63, 6, 2570-2576

FRANCISCO J GAMIZ PEREZ

JOSÉ LUIS PADILLA DE LA TORRE

- 2016 Artículo: The Electron-Hole Bilayer TFET: Dimensionality Effects and Optimization, IEEE Transactions on Electron Devices, 63, 6, 2603-2609

JOSÉ LUIS PADILLA DE LA TORRE

- 2016 Artículo: Underlap Counterdoping as an Efficient Means to Suppress Lateral Leakage in the Electron-Hole Bilayer Tunnel FET, Semiconductor Science and Technology (Print), 31, 4, 045001-1-045001-6

JOSÉ LUIS PADILLA DE LA TORRE

- 2016 Artículo: Quantum Mechanical Confinement in the Fin Electron-Hole Bilayer Tunnel Field-Effect Transistor, IEEE Transactions on Electron Devices, 63, 8, 3320-3326

FRANCISCO J GAMIZ PEREZ

JOSÉ LUIS PADILLA DE LA TORRE

- 2016 Artículo: Broadband electronically tunable reflection-based phase shifter for active-steering microwave reflectarray systems in Ku-Band, Journal of Electromagnetic Waves and Applications, 30, 12, 1545-1551

JOSÉ LUIS PADILLA DE LA TORRE

- 2016 Artículo: Securing and greening Wireless Sensor Networks with beamforming, Mobile Networks and Applications, , 1, 1-9

JOSÉ LUIS PADILLA DE LA TORRE

- 2016 Artículo: Embedded Lightweight Folded Printed Quadrifilar Helix Antenna (FPQHA) for UAV Telemetry and Remote Control Systems, IEEE Antennas and Propagation Magazine, , 99, 1-6

JOSÉ LUIS PADILLA DE LA TORRE

- 2016 Artículo: What happens when drivers face hazards on the road?, Accident Analysis and Prevention, 91, , 43-54

PEDRO GARCÍA FERNÁNDEZ

- 2016 Artículo: High-Mobility Toolkit for Quantum Dot Films, ACS PHOTONICS, 3, 11, 2059-2067



FRANCISCO MANUEL GOMEZ CAMPOS
SALVADOR RODRIGUEZ BOLIVAR

Capítulos de libros (con ISBN)

- 2016 Titulo Capítulo: Scribing Graphene Circuits, Titulo Libro: Future Trends in Microelectronics: Journey into the Unknown: , , 2016, 978-1-119-06911-9
FRANCISCO J GAMIZ PEREZ
NOEL RODRÍGUEZ SANTIAGO
CARLOS MÁRQUEZ GONZÁLEZ

Contribuciones en congresos

- 2017 Comunicación en congreso: Effect of the Metal-Organic Interfaces in Analytical Modeling of Organic Solar Cells, 231st Electrochemical Society Meeting, 28/05/2017, NEW ORLEANS (USA), Congreso
PILAR LÓPEZ VARO
JUAN ANTONIO JIMENEZ TEJADA
- 2017 Poster en Congreso: Effect of anions and cations on the performance of Perovskite Solar Cells, International Conference on Perovskite Thin Film Photovoltaics, 01/03/2017, Valencia (Spain), Congreso
JUAN ANTONIO JIMENEZ TEJADA
PILAR LÓPEZ VARO
- 2017 Comunicación en congreso: Classification Algorithms for Fetal QRS Extraction in Abdominal ECG Signals, th International Work-Conference on Bioinformatics and Biomedical Engineering, 26/04/2017, Granada, Congreso
DIEGO PEDRO MORALES SANTOS
ENCARNACIÓN CASTILLO MORALES
LUIS PARRILLA ROURE
ANTONIO GARCÍA RÍOS
- 2017 Poster en Congreso: Multi-Subband Ensemble Monte Carlo Simulations of scaled GAA MOSFETs, 2017 Joint International EUROSOI Workshop and International Conference on Ultimate Integration on Silicon, 03/04/2017, ATENAS (GRECIA), Congreso
FRANCISCO J GAMIZ PEREZ
ANDRES GODOY MEDINA
FRANCISCO JAVIER GARCÍA RUIZ
CARLOS SAMPEDRO MATARÍN
LUCA DONETTI
- 2017 Poster en Congreso: Multi-Subband Ensemble Monte Carlo simulations of scaled GAA MOSFETs, 2017 Joint International EUROSOI Workshop and International Conference on Ultimate Integration on Silicon, 03/04/2017, ATENAS (GRECIA), Congreso
FRANCISCO JAVIER GARCÍA RUIZ
ANDRES GODOY MEDINA
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LUCA DONETTI
- 2016 Comunicación en congreso: Portable Instrumentation Based on Raspberry Pi for Optical Detection of Explosives, EUROPT(R)ODE XIII - Conference on Optical Chemical Sensors and Biosensors, 20/03/2016, GRAZ (AUSTRIA), Congreso
ALBERTO JOSE PALMA LOPEZ
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- 2016 Comunicación en congreso: Electrical characterization of Random Telegraph Noise in back-biased Ultrathin Silicon-On-Insulator MOSFETs, 2016 Joint International EUROSOI Workshop and International Conference on Ultimate Integration on Silicon (EUROSOI-ULIS), 25/01/2016, AUSTRIA, AUSTRIA, VIENA, Congreso
CARLOS MÁRQUEZ GONZÁLEZ
NOEL RODRÍGUEZ SANTIAGO
FRANCISCO J GAMIZ PEREZ
- 2016 Comunicación en congreso: Web browser-based forecasting of economic time-series, Distributed Computing and Artificial Intelligence, 13th International Conference, 01/06/2016, Escuela Técnica Superior de Ingeniería Informática de Sevilla, Congreso
PEDRO GARCÍA FERNÁNDEZ
- 2016 Comunicación en congreso: Diseño, caracterización y simulación de nanodispositivos electrónicos y optoelectrónicos basados en materiales bidimensionales, I Jornadas de Investigadores en Formación Fomentando la interdisciplinariedad, 18/05/2016, , Congreso
ANDRES GODOY MEDINA
ISABEL MARIA TIENDA LUNA



JOSÉ MARÍA GONZÁLEZ MEDINA
FRANCISCO JAVIER GARCÍA RUIZ

- 2016 Comunicación en congreso: Thermal compensation in DMOS transistors used as dosimeters for electron beams, 4th internation Conference on radiation and applications in various fields of research, 23/05/2016, Nis, Serbia, Congreso

ALBERTO JOSE PALMA LOPEZ

MIGUEL ÁNGEL CARVAJAL RODRÍGUEZ

- 2016 Comunicación en congreso: Analysis of the radiation response of electrical parameters of different MOSFET models, 4th Int. Conf. on Radiation and applications in various fields of research, 23/05/2016, Nis, Serbia, Congreso

ALBERTO JOSE PALMA LOPEZ

FERNANDO MARTÍNEZ MARTÍ

MIGUEL ÁNGEL CARVAJAL RODRÍGUEZ

- 2016 Comunicación en congreso: Role of the Metal-Organic Interfaces in the Modeling of Organic Solar Cells, International Workshop on Flexible Electronics (2016), 29/06/2016, Tarragona (Spain), Taller de trabajo

JUAN ANTONIO JIMENEZ TEJADA

PILAR LÓPEZ VARO

- 2016 Poster en Congreso: Etiqueta RFID multisensora para envasado inteligente, XV Reunión del Grupo Regional Andaluz de la Sociedad Española de Química Analítica, 30/06/2016, Almería, Congreso

ANTONIO MARTINEZ OLMO

ALBERTO JOSE PALMA LOPEZ

- 2016 Ponencia en Congreso: HF RFID label for simultaneous oxygen, ammonia, carbon dioxide and humidity determination, XXV National Spectroscopy Meeting (XXV RNE) and IX Iberian Spectroscopy Conference (IX CIE), 20/07/2016, ALICANTE, Congreso

ANTONIO MARTINEZ OLMO

ALBERTO JOSE PALMA LOPEZ

- 2016 Comunicación en congreso: Effects of the extension of conductive filaments within the electrodes in RRAMs, a simulation approach, 19th Workshop on Dielectrics in Microelectronics, 27/06/2016, Catania (Italia), Congreso

FRANCISCO JIMENEZ MOLINOS

JUAN B. ROLDAN ARANDA

PEDRO GARCÍA FERNÁNDEZ

- 2016 Comunicación en congreso: An in-depth study of the physics behind resistive switching in TiN/Ti/HfO₂/W structures, 19th Workshop on Dielectrics in Microelectronics, 27/06/2016, Catania (Italia), Congreso

FRANCISCO JIMENEZ MOLINOS

GERARDO GONZÁLEZ CORDERO

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- 2016 Comunicación en congreso: SPICE simulation of thermal reset transitions in Ni/HfO₂/Si-n+ RRAMs including quantum effects, 19th Workshop on Dielectrics in Microelectronics, 27/06/2016, Catania (Italia), Congreso

FRANCISCO JIMENEZ MOLINOS

GERARDO GONZÁLEZ CORDERO

JUAN B. ROLDAN ARANDA

- 2016 Comunicación en congreso: Modeling Capacitive Effects on the Hysteresis of Perovskite Solar Cells, International Conference on Perovskite Thin Film Photovoltaics (2016), 03/03/2016, . BARCELONA, Congreso

PILAR LÓPEZ VARO

JUAN ANTONIO JIMENEZ TEJADA

- 2016 Comunicación en congreso: Ferroelectric mechanisms in solar cells, International Conference on Semiconductor Ferroelectrics and Photoferroelectrics 2016, 12/09/2016, Berlin (Alemania), Congreso

PILAR LÓPEZ VARO

JUAN ANTONIO JIMENEZ TEJADA

- 2016 Comunicación en congreso: Boundary Value for the free Charge Density in the Modeling of Organic Photovoltaic Device, International Conference on Simulation of Organic Electronics and Photovoltaics 2016, 14/09/2016, Wintherthur (Suiza), Congreso

JUAN ANTONIO LOPEZ VILLANUEVA

JUAN ENRIQUE CARCELLER BELTRAN

PILAR LÓPEZ VARO

JUAN ANTONIO JIMENEZ TEJADA

- 2016 Comunicación en congreso: An analytical energy model for the reset transition in unipolar resistive-switching RAMs, 18th Mediterranean electrotechnical conference, 18/04/2016, Limassol (Chipre), Congreso

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- 2016 Comunicación en congreso: A Physically based Circuit Model to account for Variability in Memristors with Resistive Switching Operation, XXXI Design of Circuits and Integrated Systems Conference, 23/11/2016, Granada, Congreso
JUAN B. ROLDAN ARANDA
FRANCISCO JIMENEZ MOLINOS
- 2016 Comunicación en congreso: Transient SPICE simulation of Ni/HfO₂/Si-n+ resistive memories, XXXI Design of Circuits and Integrated Systems Conference, 23/11/2016, Granada, Congreso
JUAN B. ROLDAN ARANDA
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FRANCISCO JIMENEZ MOLINOS
- 2016 Comunicación en congreso: Simulation of RRAM memory circuits, a Verilog-A compact modeling approach, XXXI Design of Circuits and Integrated Systems Conference, 23/11/2016, Granada, Congreso
GERARDO GONZÁLEZ CORDERO
JUAN B. ROLDAN ARANDA
FRANCISCO JIMENEZ MOLINOS
- 2016 Comunicación en Jornada: I Jornadas de Docencia en Ingenierías TIC de la UGR, Jornadas de Docencia en Ingenierías TIC de la UGR, 09/06/2016, , Jornada
ALBERTO JOSE PALMA LOPEZ
- 2016 Ponencia en Congreso: Sensing Capabilities of a Single-Layer MoS₂ Substrate for Molecule Detection, International Conference on Electronic Materials, 04/07/2016, SINGAPORE, Congreso
FRANCISCO J GAMIZ PEREZ
LUCA DONETTI
ANDRES GODOY MEDINA
- 2016 Comunicación en congreso: Confinement orientation effects in S/D tunneling, 2016 Joint International EUROSOI Workshop and International Conference on Ultimate Integration on Silicon, 25/01/2016, Wien, Austria, Congreso
LUCA DONETTI
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CARLOS SAMPEDRO MATARÍN
- 2016 Poster en Congreso: Multi-Subband Ensemble Monte Carlo study of band-to-band tunneling in silicon-based TFETs, 2016 International Conference on Simulation of Semiconductor Processes and Devices (SISPAD), 06/09/2016, Nuremberg, Germany, Congreso
LUCA DONETTI
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- 2016 Comunicación en congreso: Reducción de la falta de homogeneidad para la adquisición de campo cercano en sistemas 7T MRI de alta resolución, XXXI Congreso Internacional de La Unión Científica Internacional de Radio (URSI), 05/09/2016, Madrid, Congreso
JOSÉ LUIS PADILLA DE LA TORRE
- 2016 Comunicación en congreso: Electronically reconfigurable phase shifter for reflectarray applications at microwave bands, European Conference on Antennas and Propagation (EuCAP), 10/04/2016, Davos, Suiza, Congreso
JOSÉ LUIS PADILLA DE LA TORRE
- 2016 Comunicación en congreso: Criptografía basada en el canal de propagación MIMO, XXXI Simposium Nacional de la Unión Internacional de Radio, 07/09/2016, - MADRID, Congreso
JOSÉ LUIS PADILLA DE LA TORRE
- 2016 Comunicación en congreso: Functional modelling of reset processes in Resistive Random Access Memories (RRAMs), XXXVI Congreso Nacional de Estadística e Investigación Operativa y de las X Jornadas de Estadística Pública, 05/09/2016, campus fábrica de armas Toledo, Congreso
JUAN B. ROLDAN ARANDA
FRANCISCO JIMENEZ MOLINOS
- 2016 Sesión plenaria en Congreso: Calculation of Electron Mobilities in Colloidal Quantum Dot Superlattices, International Conference on Superlattices, Nanostructures and Nanodevices, 25/07/2016, Hong Kong, Congreso
FRANCISCO MANUEL GOMEZ CAMPOS
SALVADOR RODRIGUEZ BOLIVAR
JUAN ENRIQUE CARCELLER BELTRAN
- 2016 Comunicación en congreso: Parameter Extraction in Electron Devices by means of Polynomial Pattern



Analysis, 16th International Conference on Computational and Mathematical Methods in Science and Engineering, 04/07/2016, Rota, Cádiz, España, Congreso
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