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Código	Título	Tipo	Autores 1
R-0004	Dopant-Free Carrier Selective Contacts: A Paradigm-Shift in Crystalline Silicon Photovoltaic Technology	Oral	Luis Guillermo Gerling , Gerard Masmitja , Pablo Ortega , Isidro Martin , Cristóbal Voz , Joaquim Puigdollers , Ramón Alcubilla
R-0007	Conduction mechanisms in HIT solar cells	Oral	Rodrigo Garcia Hernansanz, Eric García Hemme, Daniel Montero Álvarez, Álvaro del Prado Millan, Ignacio Mártel de la Plaza, Cristobal Voz , L.G. Gerling , J. Puigdollers , Ramón Alcubilla
R-0009	2D Simulation Evaluation of PE-TFET device	Oral	Daniel Nagy , Antonio J. García Loureiro, Karol Kalna , Natalia Seoane
R-0011	A Physically Based Model to describe Resistive Switching in different RRAM technologies	Oral	Gerardo Gonzalez Cordero, Mireia Bargallo Gonzalez, Hector Garcia Garcia, Francesca Campabadal Segura, Salvador Dueñas Carazo, Helena Castan Lanaspá, Francisco Jimenez Molinos, Juan Bautista Roldan Aranda

R-0013	Multijunction solar cells incorporating Group IV SiGeSn alloys	Oral	Pablo Caño Fernández, Andrew Johnson , Ignacio Rey-Stolle
R-0018	Resistive switching phenomena on Ta2O5-TiO2 based MIM structures	Oral	Salvador Dueñas , Helena Castán , Héctor García , Tõnis Arroval , Aile Tamm , Taivo Jõgiaas , Kaupo Kukli , Jaan Aarik
R-0019	Resistive Switching with Bipolar Characteristics in TiN/Ti/HfO2/W Devices	Oral	Samuel Poblador Cester, María Cruz Acero Leal, Mireira Bargalló González, Francesca Campabadal Segura
R-0020	Conditioning Lab on PCB to Control Temperature and Mix Fluids at the Microscale for Biomedical Applications	Oral	Miguel Cabello Valverde, Carmen Aracil Fernández, Francisco Perdigones Sánchez, Jose Manuel Quero Reboul
R-0021	Resistive gas sensors employing late transition metal doped n-type metal oxide nanomaterials	Oral	Eduard Llobet , Toni Vilic , Eric Navarrete , Sergio Roso
R-0023	Analytical transfer equations for the spectral modelling of III-V multi-junction concentrator solar cells	Oral	Eduardo Fernández F.
R-0027	Supersaturated Silicon based devices for Focal Plane Array detectors for the near and mid IR range at room temperature	Oral	Daniel Montero Álvarez, Rodrigo García Hernansanz, Eric García Hemme, Javier Olea Ariza, Enrique San Andrés Serrano, Álvaro Del Prado Millán, Germán González Díaz
R-0029	Control of the Bipolar Resistive Switching Conductivity for Neuromorphic Computing Applications	Oral	Marta Pedro Puig, Javier Martinez Martin, Mireia Bargallo Gonzalez, Rosana Rodriguez Martinez, Francesca Campabadal Segura, Montse Nafria Maqueda, Xavier Aymerich Humet
R-0032	From materials to devices: bottom-up integration of nanomaterials onto silicon microstructures for thermoelectric and piezoelectric applications	Oral	Luis Fonseca , Carlos Calaza , Marc Salleras , Inci Donmez , Gonzalo Murillo , Jaume Esteve , Albert Tarancón , Alex Morata , Jose D. Santos , Gerard Gadea
R-0033	Atomic Layer Deposition and Characterization of Erbium-Iron-Oxide Thin Films	Oral	Tamm Aile , Kalam Kristjan , Seemen Helina , Kukli Kaupo , Heikilä Mikko , Link Joosep , Dueñas Salvador , Castán Helena
R-0035	Geometry and bias dependence of trapping effects in planar GaN nanodiodes	Oral	Héctor Sánchez Martín, Óscar García Pérez, Ignacio Íñiguez de la Torre Mulas, Susana Pérez Santos, Javier Mateos López, Christophe Gaquière , Tomás González Sánchez

R-0036	Microwave detection up to 43.5 GHz by GaN nano-diodes: Experimental and analytical responsivity	Oral	Héctor Sánchez Martín, Sergio Sánchez Martín, Óscar García Pérez, Susana Pérez Santos, Javier Mateos López, Tomás González Sánchez, Cristophe Gaquière , Ignacio Íñiguez de la Torre Mulas
R-0037	Coupling Defects in Macroporous Silicon Photonic Crystals	Oral	David Cardador Maza, Didac Vega Bru, Daniel Segura Garcia, Angel Rodriguez Martinez
R-0038	High channel mobility in 4H-SiC N-MOSFET using N2O oxidation combined with Boron diffusion treatment	Oral	Maria Cabello , victor Soler , Josep Montserrat , Jose Rebollo , Philippe Godignon , Jose Millán
R-0040	Monocrystalline Si quasi-spheres obtained by high-temperature reorganization in solid phase.	Oral	MOISES GARIN ESCRIVA, MARIA MAGDALENA SOLA GARCIA, RAMON ALCUBILLA GONZALEZ
R-0042	Active surface potential control in nanostructured MOX layers	Oral	Manuel Dominguez-Pumar , Lukasz Kowalski , Raul Calavia , Eduard Llobet
R-0043	Hydrogenated amorphous SiTi for photovoltaic applications	Oral	Javier Olea Ariza, Eric García Hemme, Rodrigo García Hernansanz, Daniel Montero Álvarez, Enrique San Andrés Serrano, Ignacio Mártil de la Plaza
R-0045	Effects of Pd-doped TiOx on High Efficiency Organic Solar Cells Performance	Oral	Lluís F. Marsal Garví, Josep Pallarès Marzal, José Guadalupe Sánchez López, Víctor Samuel Balderrama Vázquez, Magali Estrada del Cueto, Josep Ferré Borrull, Caterina Stenta
R-0047	Multisensor platform for indoor air quality	Oral	Gemma García Mandayo, Jurgi González de Chávarri Ostolaza, Emily Anne Hammes , Laura Parellada Monreal, Irene Castro Hurtado, Enrique Castaño Carmona, Isabel Ayerdi Olaizola, Helmut Knapp
R-0048	DC characteristics with substrate temperature for GaN on Si MOS-HEMTs	Oral	Raúl Rodríguez del Rosario, Benito González Pérez, Javier García García, Aurelio Vega Martínez, Antonio Núñez Ordóñez
R-0052	Influence of Process-Voltage-Temperature variations on the behavior of a hybrid circuit FET-SET	Oral	Esteve Amat , Joan Bausells , Francesc Perez Murano

R-0054	In situ TEM assessment of nanoresistive switching in Ni-HfO ₂ -Si capacitors: the conducting filament mechanism	Oral	Gemma Martín , Mireia B. González, Francesca Campabadal , Sònia Estradé , Francesca Peiró , Albert Cornet
R-0059	Combination of sub-second annealing techniques to reduce lateral segregation of Ti in Si supersaturated material	Oral	Eric García Hemme, Mao Wang , Slawomir Prucnal , Rodrigo García Hernansanz, Daniel Montero , Javier Olea , German González Díaz, Shengqian Zhou
R-0061	MOVPE issues in the development of ordered GaInP metamorphic buffers for multijunction solar cells	Oral	Manuel Hinojosa Arner, Iván García Vara, Carlos Algora del Valle
R-0063	Measuring low H field and currents with AMR sensors	Oral	Miriam Naranjo Esparcia, Cándid Reig , Jan Kubik , Pedro Tomás Molina, Javier Calpe Maravilla
R-0066	Power Transfer Efficiency of Silicon Nanostructured Thermoelectric Generators	Oral	Paula López Martínez, Gabriel Capeáns García, Andrea Hernández Rodríguez, Diego Cabello Ferrer
R-0069	Band gaps modelling of dilute bismide (Ga _{Bix} As _{1-x}) and dilute nitride (Ga _{Nx} As _{1-x})	Oral	Umair Ahmad Nasir , Natalia Seoane , Antonio Loureiro Garcia
R-0076	Impact of scattering mechanisms and dimensions scaling in Graphene Field-Effect transistors	Oral	Pedro Carlos Feijoo Guerro, Francisco Pasadas , José Manuel Iglesias , María Jesús Martín , Raúl Rengel , David Jiménez Jiménez
R-0080	Resistive switching behavior of graphene oxide films in symmetric metal-insulator-metal structures	Oral	Eduard Masvidal-Codina , Jordi Muñoz , Gerard Pedreira , Raquel Rodriguez-Lamas , Adrián Sáez , Gemma Rius
R-0082	Making the most of transconductance: Optimization of graphene solution-gated field-effect transistors geometry for sensing applications	Oral	Eduard Masvidal Codina, Xavier Illa Vila, Rosa Villa Sanz, Jose Antonio Garrido Ariza, Anton Guimerà Brunet
R-0084	Technological solutions for large area microstrip radiation silicon sensors for the LHC upgrade	Oral	Javier Fernández Tejero, Miguel Ullán Comes, Celeste Fleta Corral, David Quirion
R-0085	Effects of HfO ₂ Gate dielectric and KOH-based pre-treatments on AlGaN/GaN Metal-Oxide-Semiconductor High Electron Mobility Transistors	Oral	Zhan Gao , M ^a Fátima Romero Rojo, Fernando Calle Gómez

R-0086	Transformation of graphene into graphene oxide by controlled electrical discharges for metal/insulator devices	Oral	Angel Luis Alvarez Castillo, Fernando Borrás , Jorge S. Moreno , Carmen Coya , Rodrigo Picos , Esteban Climent , Carmen Munuera , Alicia de Andrés
R-0090	Single metal oxide nanowires for gas sensing	Oral	Guillem Domènech Gil, Elena Lopez Aymerich, Irmina Peiró Riera, Jordi Samà , Paolo Pellegrino , Isabel Gràcia , Barth Sven , Albert Romano Rodríguez
R-0095	Understanding the limiting factors of solvent annealed Small molecule-bulkheterojunction organic solar cells from an experimental perspective	Oral	Aurelien Viterisi
R-0097	Analysis of bidirectional switch solutions based on different power devices	Oral	Manuel Fernández Martínez, Xavier Perpiñà Giribet, Miquel Vellvehi Hernández, David Sánchez Sánchez, Tomás Cabeza Gozalo, Sergio Llorente Gil, Xavier Jordà Sanuy, José Millán Gómez