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COMUNICACIONES PÓSTERS

R-0001	The design and analysis of a novel structural MEMS piezoresistive pressure sensor	Póster	Chuang Li , Francisco Cordovilla , José L. Ocaña
R-0002	Top electrode dependence of the resistive switching behavior in HfO ₂ /n+Si-based devices	Póster	Jordi Muñoz Gorriz, M ^a Cruz Acero Leal, Mireia Bargalló González, Francesca Campabadal Segura
R-0003	Cost-effective cleaning solutions based on H ₂ O/NH ₃ /H ₂ O ₂ mixtures for ALD Al ₂ O ₃ passivated IBC c-Si solar cells	Póster	Gerard Masmitjà , Pablo Ortega , Isidro Martín , Gema López , Eric Calle , Luis G. Gerling , Cristobal Voz , Ramón Alcubilla
R-0005	SPICE Simulation of HfO ₂ -Based 1T1R Structures Using the Logistic Hysteron	Póster	Enrique Miranda Castellano
R-0006	Characterization of the Fatigue Profile in La _{1/3} Ca _{2/3} MnO ₃ Films Caused by the EPIR Mechanism	Póster	Enrique Miranda Castellano
R-0008	Interdigitated back contacted c-Si(p) solar cells with photovoltaic efficiencies beyond 22%	Póster	Eric Calle , Pablo Ortega , Gema López , Isidro Martín , David Carrió , Gerard Masmitjà , Cristóbal Voz , Albert Orpella

R-0010	SPICE simulation of RRAM circuits. A compact modeling perspective	Póster	Gerardo Gonzalez Cordero, Juan Bautista Roldan Aranda, Francisco Jimenez Molinos
R-0012	Dynamic Study of the Gate of an n-MOS Microfluidic Transistor for Computational Microfluidics	Póster	Emilio Franco González, Francisco Antonio Perdigones Sánchez, José Manuel Quero Reboul
R-0014	Detection of low levels of NO ₂ with electrospun tin dioxide nanofibers based sensors	Póster	José Pedro Santos Blanco, Esther Hontañón Lavín, Isabel Sayago Olmo, María Jesús Fernández Díez, Jesús Lozano Rogado
R-0015	Improving a nozzle tip with a guard ring for an electrospray system	Póster	Bremnen Veliz Noboa, Sandra Bermejo Broto, Luis Castañer Muñoz
R-0016	Sensing properties of ZnO Nanostructured Layers	Póster	Càndid Reig , Lluís M. Guia , Pedro J. Rodríguez-Canto , Vicente Muñoz-Sanjosé , Sergio Arana
R-0017	Advanced electrical characterization of atomic layer deposited Al ₂ O ₃ MIS-based structures	Póster	Héctor García , Helena Castán , Salvador Dueñas
R-0022	GWM: An intelligent task manager applied to semiconductor statistical studies	Póster	Guillermo Indalecio , Natalia Seoane , Fernando Gomez-Folgar , Antonio Jesús García-Loureiro
R-0024	Love wave toluene sensor based on multi-guiding layers	Póster	Daniel Matatagui Cruz, Maria Jesús Fernández Díez, José Luis Fontecha González, José Pedro Santos Blanco, Isabel Sayago Olmo, Isabel Gràcia Tortadés, Jesús Lozano Rogado, Maria del Carmen Horrillo Güemes
R-0025	ZnO and ZnO/SnO ₂ nanofibers as resistive gas sensors for NO ₂ detection	Póster	Isabel Sayago Olmo, Esther Hontañón Lavín, Maria Jesús Fernández Díez, Isabel Gràcia Tortadés, José Pedro Santos Blanco
R-0026	Micromachined sensors based on ZnO structures and their thermo- and photo-activated response to reducing gases	Póster	Stella Vallejos Vargas, Isabel Gràcia Tortadès, Eduard Figueras Costa, Nadezda Pizurova , Jaromir Hubalek , Carles Cané Ballart

R-0028	Sub-uA detection by means of GMR sensors using a custom read-out interface	Póster	Nicolás Medrano Marqués, Daniel García Romeo, Belén Calvo López, Pedro A. Martínez Martínez, M ^a Dolores Cubells Beltrán, Càn did Reig Escrivá, Susana Cardoso , Paulo Freitas
R-0030	Atomic layer deposition and characterization of ZrO ₂ -Fe ₂ O ₃ thin films	Póster	Kristjan Kalam , Helina Seemen , Peeter Ritslaid , Aile Tamm , Arne Kasikov , Joosep Link , Salvador Dueñas , Helena Castán
R-0031	Macroporous Silicon with 500 nm periodicity for near-infrared applications	Póster	Didac Vega Bru, David Cardador Maza, Angel Rodriguez Martinez
R-0034	Integrated anion-exchange cartridge for [18 F]F preconcentration in a PDMS radiopharmacy chip	Póster	Blas Salvador Domínguez, Estepa Antonio Luque, Sousa Ariadna Corral, Castelló Diana Orta, Gómez Isabel Fernández, Maza Laura Fernández, Reboul José Manuel Quero
R-0039	Silicon nitride layers for DopLa-IBC solar cells	Póster	Antonio Méndez Puertas, Isidro Martín García, Gema López Rodríguez, Pablo Ortega Villasclaras, Albert Orpella García, Ramon Alcubilla González
R-0041	Improved transmission and thermal emission in macroporous silicon with 700 nm pitch	Póster	David Cardador Maza, Didac Vega Bru, Daniel Segura Garcia, Angel Rodriguez Martinez
R-0044	Enhancement of Resistive Switching Measurement Time-Resolution by a Developed Ultrafast System	Póster	Marcos Maestro Izquierdo, Javier Diaz Fortuny, Javier Martin Martinez, Albert Crespo Yepes, Rosana Rodriguez Martinez, Montserrat Nafria Maqueda, Xavier Aymerich Humet
R-0046	Hole-selective contacts by RF magnetron sputtering for heterojunction silicon solar cell structures	Póster	Joan Bertomeu , Raül Perea , Luis Guillermo Gerling , José Miguel Asensi , Jordi Andreu , Joaquim Puigdollers , Cristóbal Voz
R-0049	Characterization of amorphous Si generated through classical molecular dynamics simulations	Póster	Iván Santos Tejido, Pedro López Martín, María Aboy Cebrián, Luis A. Marqués Cuesta, Lourdes Pelaz Montes

R-0050	Electrochemical characterization of ionogel actuators	Póster	Nerea Gil González, Tugce Akyazi , Enrique Castaño Carmona, Fernando Benito López, Maria Carmen Morant Miñana
R-0051	Electrical characteristics improvement of P3HT:PCBM solar cells by addition of PbS quantum dots stabilized with thiophenol/decanethiol mixed ligands	Póster	Juan Carlos Ferrer Millan, Fernando Rodriguez Mas, Jose Luis Alonso Serrano, Susana Fernandez de Avila Lopez
R-0053	Evaluation of energy barriers for topological transitions of Si self-interstitial clusters by classical molecular dynamics and the kinetic activation-relaxation technique	Póster	Pedro López Martín, Diego Calvo Ruiz, Iván Santos Tejido, María Aboy Cebrián, Luis Alberto Marqués Cuesta, Mickaël Trochet , Normand Mousseau , M ^a Lourdes Pelaz Montes
R-0055	Ni/HfO ₂ /Si resistive switching structures: A device level and nanoscale analysis with CAFM	Póster	Sergi Claramunt Ruiz, Qian Wu , Marcos Maestro Izquierdo, Marc Porti , Maria Cruz Acero , Mireia Bargalló Gonzalez, Javier Martin-Martinez , Francesca Campabadal , Montserrat Nafria
R-0056	Numerical study of p-type InSb and GaSb nanowires	Póster	Celso Martínez Blanque, Alejandro Toral López, José María González Medina, Enrique González Marín, Francisco Javier García Ruiz, Andrés Godoy Medina, Francisco Gámiz Pérez
R-0057	Development of gas sensors based in photonic crystal slabs	Póster	Oraman Yoosefi , Mohammad Javad Yahyapour , Daniel Segura , Didac Vega , Federico Dios , Angel Rodriguez
R-0058	Flux-Charge Characterizing of Reset Transition in Bipolar Resistive-Switching Memristive Devices	Póster	Mohamad Moner Al Chawa , Rodrigo Picos , Erika Covi , Stefano Brivio , Eugenio García Moreno , Sabina Spiga
R-0060	Flexible Inkjet-Printed Hybrid Circuit : Surface Mount Devices Assembled by Silver Nanoparticles-Based Ink.	Póster	Javier Arrese Carrasquer, Elena Xuriguera Martín, Giovanni Vescio Vescio, Beatriz Medina Rodríguez, Albert Cornet Calveras, Albert Cirera Hernández
R-0062	RF noise model for AlGaIn/GaN HEMT	Póster	Wondwosen Eshetu Muhea , Fetene Mulugeta Yigletu , Antonio Lazaro , Benjamin Iñiguez
R-0064	Impact of Annealing on the Performance of 1 eV GaNAsSb Solar Cells	Póster	Iván Lombardero

R-0065	Impact of Self-heating and Hot Phonons on the Drift Velocity in Graphene	Póster	José Manuel Iglesias Pérez, María Jesús Martín Martínez, Elena Pascual Corral, Raúl Rengel Estévez
R-0067	A small-signal equivalent circuit of RF graphene field-effect transistors that guarantees charge conservation	Póster	Francisco Pasadas Cantos, David Jiménez Jiménez
R-0068	SPICE modeling of RRAM thermal reset transitions for circuit simulation purposes	Póster	Francisco Jiménez Molinos, Gerardo González Cordero, Pedro Cartujo Cassinello, Juan B. Roldán Aranda

R-0070	A combined Monte Carlo-balance equations approach for the study of small-signal and noise properties of graphene	Póster	Raúl Rengel , José Manuel Iglesias , Elena Pascual , María Jesús Martín
R-0072	Transmission Electron Microscopy Image Simulation of Extended Defects in Silicon	Póster	Manuel Ruiz Prieto, Luis Alberto Marqués , Maria Aboy , Iván Santos , Pedro Lopez , Lourdes Pelaz
R-0074	Combination of local and distributed resistive switching in ultra thin (<2nm) TiO ₂ films	Póster	Na Xiao , Marco Antonio Villena , Yuanyuan Shi , Xu Jing , Fei Hui , Mario Lanza
R-0075	Detection of air pollutants with a Wireless Sensor Networks combined with Pattern Recognition Methods	Póster	Jesus Lozano Rogado, Patricia Arroyo Muñoz, José Ignacio Suárez Marcelo, José Luis Herrero Agustín, Pablo Carmona del Barco
R-0077	Alternative substrates for thin film chalcogenide solar cells: Towards a more functional building integration	Póster	Ignacio Becerril Romero, Monica Colina , Markus Neuschitzer , Marcel Placidi , Victor Izquierdo Roca, Edgardo Saucedo Silva, Alejandro Pérez Rodríguez
R-0078	Electrical Characterization and Radiation Hardness of a New 3D Vertical JFET Transistor	Póster	Lucía Ré Blanco, Pablo Fernández Martínez, David Flores Gual, Salvador Hidalgo Villena, David Quirion , Miguel Ullán Comés
R-0081	Substrate bulk-induced effect beyond the interface in hybrid lead iodide perovskites	Póster	MARÍA DEL CARMEN COYA PÁRRAGA, ESTEBAN CLIMENT-PASCUAL , JORGE SEBASTIÁN MORENO , ANGEL LUIS ÁLVAREZ CASTILLO, BRUNO CLASEN JAMES, ELENA MÁS-MARZÁ , IVÁN MORA-SERÓ , ALICIA DE ANDRÉS

R-0083	A model for the contact resistance between metal and 2D semiconductor	Póster	Ferney Chaves Romero, David Jiménez Jiménez
R-0087	Optofluidic System for fluorescence cytometry	Póster	Lourdes Méndez Mora, JOHN JAIBER GONZÁLEZ MURILLO, MARÍA CABELLO FUSARÉS, JUAN JOSÉ JARAMILLO VILLEGAS, IVAN BERNAT UBIAGA, ÓSCAR CASTILLO FERNÁNDEZ, MAURICIO MORENO SERENO, ALBERT ROMANO RODRIGUEZ
R-0088	Contact resistance in metal/graphene junctions from first principles	Póster	Xavier Cartoixà Soler, Kandara L N Acharya , Ferran Jovell Megias, Juan José Palacios
R-0089	Electron-phonon scattering rates in nanostructures	Póster	Martí Raya Moreno, Xavier Cartoixà Soler
R-0091	Effect of the intercalation of graphite in a metal/graphene contact	Póster	Ferran Jovell Megias, Xavier Cartoixà Soler
R-0092	Charge-state dependency of defect kinetics in HfO ₂	Póster	María Laura Urquiza Toledo, Xavier Cartoixà Soler
R-0093	Fabrication and characterization of ring resonators for biochemical analysis	Póster	Daniel Segura , Didac Vega , Oraman Yoosefi , Federico Dios , Angel Rodriguez
R-0094	Single metal oxide nanowires for gas sensors with ultra-low power consumption	Póster	Guillem Domènech Gil, Jordi Samà Monsonís, Joan Daniel Prades Garcia, Olga Casals , Francisco Hernández Ramírez, Isabel Gràcia , Sven barth , Albert Romano Rodríguez
R-0096	Lock-in Infrared Thermography: a tool to locate and analyse failures in power devices	Póster	Miquel Vellvehi Hernández, Xavier Perpiñà Giribet, Javier León Cerro, David Sánchez Sánchez, Xavier Jordà Sanuy
R-0098	Computation method and comparison of semiconductor power losses within bidirectional switches (BDS)	Póster	J.L. Gálvez , X. Perpiñà , M. Vellvehí , D. Sánchez , X. Jordà , J. Millán
R-0099	Optical design of an optofluidic device for flow micro-cytometry	Póster	IAGO RODRIGUEZ DIEZ, LOURDES MÉNDEZ MORA, JOHN JAIBER GONZALEZ MURILLO, JUAN JOSÉ JARAMILLO VILLEGAS, IVAN BERNAT UBIAGA, ALBERT ROMANO RODRIGUEZ, MAURICIO MORENO SERENO