

LIST OF CONTRIBUTIONS TO NATIONAL AND INTERNATIONAL CONGRESSES 2017

1. M. Vellvehi, X. Perpiñà, X. Jordà.
Análisis de los Mecanismos Físicos de Fallo en Dispositivos Microelectrónicos mediante Termografía Infrarroja Lock-in.
IMPhocus, Congreso de Tecnologías Fotónicas; International
2. M. Fernández; X. Perpiñà; M. Vellvehi; D. Sánchez; X. Jordà; J. Millán; T. Cabeza; S. Llorente.
Analysis of bidirectional switch solutions based on different power devices
Spanish Conference on Electron Devices (CDE); International
3. M. Cabello; V. Soler; J. Montserrat; P. Godignon; A. Varghese; J-M. Decams.
Analysis of ZrxSiyOz as High-K Dielectric for 4H-SiC MOSFETs.
International Conference on Silicon Carbides and Related Materials; International
4. G. Gómez; I. Vila; S. Hidalgo; G. Pellegrini.
Characterization of small pitch 3D sensors from CNM.
12th Trento Workshop on Advanced Silicon Radiation Detectors; International
5. V. Soler; M. Cabello; J. Montserrat; A. Mihaila; E. Bianda; J. Rebollo; P. Godignon.
Comparison of High Voltage SiC Rectifiers.
Seminario Anual de Automática, electrónica industrial e Instrumentación (SAAEI); National
6. V. Soler; M. Cabello; V. Banu; J. Montserrat; J. Rebollo; P. Godignon.
Complementary P-Channel and N-Channel SiC MOSFETs for CMOS Integration.
International Conference on Silicon Carbides and Related Materials; International
7. J. L. Gálvez; X. Perpiñà; M. Vellvehí; D. Sánchez; X. Jordà; J. Millán.
Computation method and comparison of semiconductor power losses within bidirectional switches (BDS).
Spanish Conference on Electron Devices (CDE); International
8. Lucía Ré; Pablo Fernández-Martínez; David Flores; Salvador Hidalgo; David Quirion; Miguel Ullán.
Electrical Characterization and Radiation Hardness of a New 3D Vertical JFET Transistor.
Spanish Conference on Electron Devices (CDE); International
9. R. Durà; J. Pallarès; R. Quijada; X. Formatjé; S. Hidalgo; F. Serra-Graells.

Fast and Robust Topology-Based Logic Gate Identification for Automated IC Reverse Engineering.

International Symposium for Testing and Failure Analysis; International

10. M. Cabello; V. Soler; J. Montserrat; J. Rebollo; P. Godignon; J. Millan.
High channel mobility in 4H-SiC N-MOSFET using N₂O oxidation combined with Boron diffusion treatment.
Spanish Conference on Electron Devices (CDE), 2017; International
11. Viorel Banu; Maxime Berthou; Josép Montserrat; Xavier Jordà; Philippe Godignon.
Impact of layout on the surge current robustness of 1.2 KV SiC diodes.
International Semiconductor Conference; International
12. Rius, G.; Prats-Alfonso, E.; Villa, R.; Godignon, P.
Interface Reactivity and Catalysis in Graphene on SiC to Unlock Exfoliation Mechanism by Electrochemical Bubbling Method.
European Graphene Forum - EGF; International
13. J Llobet; X Borrísé; R Koops; M Van Veghel; G Rius; F Pérez-Murano.
Large arrays of suspended silicon nanowires defined by ion beam implantation.
International Conference on Micro and Nanoengineering; International
14. M. Vellvehi; X. Perpiñà; J. León; D. Sánchez; X. Jordà.
Lock-in Infrared Thermography: a tool to locate and analyse failures in power devices.
Spanish Conference Electron Devices (CDE); International
15. Rius, G.; Pérez-Murano, F.; Godignon, P.
Micro and Nanofabrication for Graphene Electronics.
Workshop: Nanodevices based on graphene and 2D systems; International
16. P. Godignon; V. Soler; M. Cabello; J. Montserrat; J. Rebollo; L. Knoll; E. Bianda; A. Mihaila.
New trends in high voltage MOSFET based on wide band gap materials.
International Semiconductor Conference; International
17. Rius, G.; Prats-Alfonso, E.; Villa, R.; Godignon, P.
Novel one-step method for the delamination of epitaxial graphene on SiC.
Graphene Conference series, the largest European Event in Graphene and 2D Materials; International
18. J.M. Raffí; G. Pellegrini; P. Godignon; D. Quirion; S. Hidalgo; O. Matilla; A. Fontserè; B. Molas; K. Takakura; I. Tsunoda; M. Yoneoka; D. Pothin; P. Fajardo.

Four-quadrant Silicon and Silicon Carbide Photodiodes for Beam Position Monitor Application: Electrical Characterization and Electron Irradiation Effects.

International Conference on Position Sensitive Detectors; International

19. Ballestar; L. Serrano; A. García-García; G Rius; M. R. Ibarra; J. M. De Teresa; P. Godignon.

Graphene for high-performance electronic devices.

Graphene Week; International

20. L. Méndez; J.J. Gonzalez-Murillo; M. Cabello; J. Jaramillo-Villegas; I. Bernat; O. Castillo; M. Moreno-Sereno; A. Romano-Rodriguez.

Optofluidic System for fluorescence cytometry.

Spanish Conference on Electron Devices (CDE); International

21. M. Fernández; X. Perpiñà; M. Vellvehi; X. Jordà.

Short-Circuit Capability in P-GaN HEMTs and GaN MISHEMTs.

29th International Symposium on Power Semiconductor Devices and ICs (ISPSD); International

22. Anton J. Bauer; Peter Friedrichs; Peder Bergman; Adolf Schöner; Andrei Mihaila; Philippe Godignon; Antonio de la Cruz; Christian Sommer; Itziar Kortazar; Jose Maria Cuartas Alonso.

SiC Power Electronics Technology for Energy Efficient Devices (SPEED) Introduction Overview. High Quality Substrate Material for High Power Application; High Voltage SiC Devices for Power Transmission Application; Solid State Transformers with Increased Functionalities and SiC in Future Wind Power Applications.

International Conference on Silicon Carbides and Related Materials; International

23. G Rius; L Evangelio; F Pérez-Murano; P Godignon.

Spontaneous vertical-horizontal alternate-orientation and directed self-assembly of cylindrical block copolymers for the nanopatterning of epitaxial graphene on silicon carbide.

International Conference on Micro and Nanoengineering; International

24. García-García; G Rius; A. Ballestar; L. Serrano; M. J. Pérez; E. Prats-Alfonso; R. Villa; J. M. De Teresa; M. R. Ibarra; P. Godignon.

Overcoming technological issues of graphene grown on SiC.

International Symposium on Epitaxial Graphene; International

25. García-García; A. Ballestar; L. Serrano; G Rius; M. R. Ibarra; J. M. De Teresa; P. Godignon.

Synthesis of epitaxial graphene on SiC for electronic applications.

Workshop: Nanodevices based on graphene and 2D systems; International

26. García-García; A. Ballestar; L. Serrano; G Rius; M. R. Ibarra; J. M. De Teresa; P. Godignon.

Synthesis of epitaxial graphene on SiC for graphene-based electronics.
Graphene Conference series, the largest European Event in Graphene and 2D Materials; International

27. Inés Serrano-Esparza; Soraya Sangiao; A. Ballestar; L. Serrano-Ramón; A. García-García; Philippe Godignon; A. Zurutuza; A. Centeno; José María De Teresa.

Weak localization in wafer-scale graphene.
Workshop: Nanodevices based on graphene and 2D systems; International

28. M. Fernández, X. Perpiñà, M. Vellvehi and X. Jordà, T. Cabeza and S. Llorente.
Analysis of Solid State Relay Solutions Based on Different Semiconductor Technologies.

European Power Electronics Conference (EPE'17-ECCE EUROPE); International