

LIST OF JOURNAL PAPERS 2013

- 1 - Altet, J., Gomez, D., Perpiñá, X., Mateo, D., González, J.L., Vellvehí, M., Jordà, X.
" EFFICIENCY DETERMINATION OF RF LINEAR POWER AMPLIFIERS BY STEADY-STATE TEMPERATURE MONITORING USING BUILT-IN SENSORS "
SENSORS AND ACTUATORS A-PHYSICAL. Vol.192 49-57, 2013.

- 2 - Fernández-Martínez, P., Palomo, F.R., Hidalgo, S., Fleta, C., Campabadal, F., Flores, D.
" ANALYSIS OF DISPLACEMENT DAMAGE EFFECTS ON MOS CAPACITORS "
NUCLEAR INSTRUMENTS METHODS IN PHYSICS RESEARCH SECTION A ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT. Proceedings of the 9th International Conference on Radiation Effects on Semiconductor Materials Detectors and Devices – October 9-12 2012 Dipartimento di Fisica e Astronomia - Sezione di Astronomia e Scienza dello Spazio - Largo Enrico Fermi, 2, 50125 Firenze Organized by : Università degli Studi di Firenze with the support of Istituto Nazionale di Fisica Nucleare. Vol.730 91-94, 2013.

- 3 - Fontserè, A., Pérez-Tomàs, A., Placidi, M., Baron, N., Chenot, S., Moreno, J.C., Cordier, Y.
" BULK TEMPERATURE IMPACT ON THE ALGAN/GAN HEMT FORWARD CURRENT ON SI, SAPPHIRE AND FREE-STANDING GAN "
ECS SOLID STATE LETTERS. Vol.2 n° (1), P4-P7, 2013.

- 4 - Fontserè, A., Pérez-Tomàs, A., Placidi, M., Baron, N., Chenot, S., Moreno, J.C., Renneson, S., Cordier, Y.
" MOLECULAR BEAM EPITAXIAL ALGAN/GAN HIGH ELECTRON MOBILITY TRANSISTORS LEAKAGE THERMAL ACTIVATION ON SILICON AND SAPPHIRE "
APPLIED PHYSICS LETTERS. Vol.102 n° (9), 093503, 2013.

- 5 - Gammon, P.M., Pérez-Tomàs, A., Shah, V.A., Vavasour, O., Donchev, E., Pang, J.S., Myronov, M., Fisher, C.A., Jennings, M.R., Leadley, D.R., Mawby, P.A.
" MODELLING THE INHOMOGENEOUS SIC SCHOTTKY INTERFACE "
JOURNAL OF APPLIED PHYSICS. Vol.114 n° (2), 223704, 2013.

- 6 - Gonzalez-Guerrero, M.J., Esquivel, J.P., Sánchez-Molas, D., Godignon, P., Munoz, F.X., Del Campo, F.J., Giroud, F., Minteer, S.D., Sabaté, N.
" MEMBRANELESS GLUCOSE/O-2 MICROFLUIDIC ENZYMIC BIOFUEL CELL USING PYROLYZED PHOTORESIST FILM ELECTRODES "
LAB ON A CHIP. Vol.13 n° (15), 2972-2979, 2013.

- 7 - Jakovenko, J., Formanek, J., Perpiñá, X., Jordà, X., Vellvehí, M., Werkhoven, R., Husak, M., Kunen, J., Bancken, P., Bolt, P.J., Gasse, A.
" DESIGN METHODOLOGIES FOR RELIABILITY OF SSL LED BOARDS "
MICROELECTRONICS RELIABILITY. Vol.53 n° (8), 1076-1083, 2013.

- 8 - León, J., Perpiñá, X., Altet, J., Vellvehí, M., Jordà, X.
" PHYSICALLY BASED ANALYSIS OF ELECTRICAL FREQUENCY RESPONSE OF PASSIVE MICROELECTRONIC CIRCUITS BY HETERODYNE LOCK-IN THERMAL MEANS "
JOURNAL OF PHYSICS D-APPLIED PHYSICS. Vol.46 n° (44), 445501, 2013.

- 9 - León, J., Perpiñá, X., Altet, J., Vellvehí, M., Jordà, X.
" SPATIALLY AND FREQUENCY-RESOLVED MONITORING OF INTRADIE CAPACITIVE COUPLING

BY HETERODYNE EXCITATION INFRARED LOCK-IN THERMOGRAPHY "
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10 - León, J., Perpiñá, X., Vellvehí, M., Baldi, A., Sacristán, J., Jordà, X.
" **WIRELESS PAD-FREE INTEGRATED CIRCUIT DEBUGGING BY POWERING MODULATION AND LOCK-IN INFRARED SENSING "**
APPLIED PHYSICS LETTERS. Vol.102 n° (8), 084106, 2013.

11 - Martín, I., Gabriel, G., Guimerà, A., Palomer, X., Reig, R., Sánchez-Vives, M., Villa, R., Godignon, P.
" **MULTI-WALLED CARBON NANOTUBE BASED MULTI-ELECTRODE ARRAYS FOR THE DETECTION OF THE EMERGENT ACTIVITY IN THE CORTICAL NETWORK "**
MICROELECTRONIC ENGINEERING. Vol.112 n° (SI), 14-20, 2013.

12 - Millán, J., Godignon, P., Jordà, X., Berthou, M., Banu, V.
" **THERMAL BEHAVIOR OF SIC POWER DIODES "**
ECS TRANSACTIONS. Vol.50 n° (3), 399-410, 2013.

13 - Pardo, b., Gasse, A., Fargeix, A., Jakovenko, J., Werkhoven, R., Perpiñá, X., Jordà, X., Vellvehí, M., Van Weelden, T., Bancken, P.
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14 - Pérez-Tomás, A., Fontserè, A., Sánchez, S., Jennings, M.R., Gammon, P.M., Cordier, Y.
" **GATE TRAPS INDUCING BAND-BENDING FLUCTUATIONS ON ALGAN/GAN HETEROJUNCTION TRANSISTORS "**
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15 - Pérez-Tomás, A., Fontserè, A., Placidi, M., Jennings, M.R., Gammon, P.M.
" **MODELLING THE METAL-SEMICONDUCTOR BAND STRUCTURE IN IMPLANTED OHMIC CONTACTS TO GAN AND SIC "**
MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING. Vol.21 n° (3), 035004, 2013.

16 - Perpiñá, X., Cortés, I., Urresti, J., Jordà, X., Rebollo, J.
" **LAYOUT ROLE IN FAILURE PHYSICS OF IGBTs UNDER OVERLOADING CLAMPED INDUCTIVE TURN-OFF "**
IEEE TRANSACTIONS ON ELECTRON DEVICES. Vol.60 n° (2), 598-605, 2013.

17 - Sánchez-Molas, D., Cases-Utrera, J., Godignon, P., Del Campo, F.J.
" **MERCURY DETECTION AT MICROFABRICATED PYROLYZED PHOTORESIST FILM (PPF) DISK ELECTRODES "**
SENSORS AND ACTUATORS B-CHEMICAL. Vol.186 293-299, 2013.