

LIST OF JOURNAL PAPERS 2022

- 1- Bonet, F., Aviñó-Salvadó, O., Vellvehi, M., Jordà, X., Godignon, P., Perpiñà, X.
“CARRIER CONCENTRATION ANALYSIS IN 1.2 KV SIC SCHOTTKY DIODES UNDER CURRENT CROWDING”
IEEE Electron Device Letters, 2022
DOI: [10.1109/LED.2022.3171112](https://doi.org/10.1109/LED.2022.3171112)

- 2- Jiménez-Ramos, MC., Lopez, JG., Osuna, AG., Vila, I., Curras, E., Jaramillo, R., Hidalgo, S., Pellegrini, G.
“STUDY OF IONIZATION CHARGE DENSITY-INDUCED GAIN SUPPRESSION IN LGADs”
SENSORS, vol. 22, 1080, 2022
DOI: [10.3390/s22031080](https://doi.org/10.3390/s22031080)

- 3- de Rojas, J., Quintana, A., Rius, G., Stefani, C., Domingo, N., Costa-Kraemer, JL., Menéndez, E., Sort, J.
“VOLTAGE CONTROL OF MAGNETISM WITH MAGNETO-IONIC APPROACHES: BEYOND VOLTAGE-DRIVEN OXYGEN ION MIGRATION”
APPLIED PHYSICS LETTERS, vol. 120, 070501, 2022
DOI: [10.1063/5.0079762](https://doi.org/10.1063/5.0079762)

- 4- Zummo F., Esposito P. Hou H., Wetzl C. , Rius G., Tkatchenko R., Guimera A., Godignon P., Prato M., Prats-Alonso E., Criado A., Scaini D.
“BIDIRECTIONAL MODULATION OF NEURONAL CELLS ELECTRICAL AND MECHANICAL PROPERTIES THROUGH PRISTINE AND FUNCTIONALIZED GRAPHENE SUBSTRATES”
Frontiers in Neuroscience 15, 1769
DOI: [10.3389/fnins.2021.811348](https://doi.org/10.3389/fnins.2021.811348)

- 5- Aslanidou S., García-García A., Rius G., Godignon P.
“FABRICATION AND CHARACTERIZATION OF EPITAXIAL GRAPHENE FIELD EFFECT TRANSISTOR DEVICES BASED ON A MONOLITHIC BOTTOM GATE”
Materials Science Forum 1062, 603-607
DOI: [10.4028/p-4vc4yb](https://doi.org/10.4028/p-4vc4yb)

- 6- Otero S., Ugobono, Rafí JM, Godignon P., Pellegrini G., Rius G-, Ramos J., García J, Garcia A.
“MONOLITHIC INTEGRATION OF GRAPHENE IN SIC RADIATION SENSORS FOR HARSH-ENVIRONMENT APPLICATIONS”
Materials Science Forum 1062, 458-462
DOI: [10.4028/p-hd601i](https://doi.org/10.4028/p-hd601i)

- 7- Chiara Grieco, L Castillo García, A Doblas Moreno, Evangelos Leonidas Gkougkousis, Sebastian Grinstein, Salvador Hidalgo, Neil Moffat, Giulio Pellegrini, J Villegas Dominguez
OVERVIEW OF CNM LGAD RESULTS: BORON SI-ON-SI AND EPITAXIAL WAFERS
Journal of Instrumentation, 17, C09021
DOI [10.1088/1748-0221/17/09/C09021](https://doi.org/10.1088/1748-0221/17/09/C09021)

- 8- C Agapopoulou, S Alderweireldt, S Ali, MK Ayoub, D Benchekroun, L Castillo García, YH Chan, H El Jarrari, A Falou, A Ferreira, EL Gkougkousis, C Grieco, S Grinstein, J Große-Knetter, J Guimarães da Costa, S Guindon, AM Henriques Correia, S Hidalgo, A Howard, PJ Hsu, YC Huang, Y Khoulaki, G Kramberger, ES Kuwertz, J Lange, C Li, Q Li, HC Lin, YJ Lu, N Makovec, L Masetti, R Mazini, SM Mazza, I Nikolic, G Pellegrini, A Quadt, B Reynolds, C Rizzi,

M Robles Manzano, A Rummler, S Sacerdoti, L Serin, J Soengen, Y Tayalati, S Terzo, E Tolley, S Trincaz-Duvoid, SM Wang, X Yang

“PERFORMANCE IN BEAM TESTS OF IRRADIATED LOW GAIN AVALANCHE DETECTORS FOR THE ATLAS HIGH GRANULARITY TIMING DETECTOR”

Journal of Instrumentation, 17, P09026

[DOI:10.1088/1748-0221/17/09/P09026](https://doi.org/10.1088/1748-0221/17/09/P09026)

9- W Khalid, M Valentan, A Doblas, D Flores, S Hidalgo, G Konrad, J Marton, Neil Moffat, Daniel Moser, Sebastian Onder, Giulio Pellegrini, Jairo Villegas

“FIRST RESULTS FOR THE PLGAD SENSOR FOR LOW-PENETRATING PARTICLES”

Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1040, 167220

[DOI:10.1016/j.nima.2022.167220](https://doi.org/10.1016/j.nima.2022.167220)