

DEPARTAMENTO DE
TECNOLOGIA ELECTRONICA

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Actividades de investigación

Tesis Doctorales

- Adaptive micro-optical phase modulators based on liquid crystal technology
Autores: ALGORRI, J.F.
Director/Codirectores: URRUCHI, V.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2015
- Birefringent and Diffractive Devices for Implementing Multi-Gbit/s Transmission Systems using Visible WDM over SI-POF Technology
Autores: P. J. PINZÓN
Director/Codirectores: VAZQUEZ, M.C.; PEREZ, A. I.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2015
- Contribución al desarrollo de Nuevas Ayudas electroópticas en Rehabilitación Visual
Autores: VEGA, C.
Director/Codirectores: VERGAZ, R.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2015
- Contribuciones a las comunicaciones ópticas en espacio libre: utilización de telescopios Cherenkov como receptores y corrección de Beam Wander en comunicaciones cuánticas
Autores: CARRASCO, A.A.
Director/Codirectores: SANCHEZ PENA, J.M.; VERGAZ, R.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2015
- Design and characterization of new tunable devices based on liquid crystal technology for microwave applications
Autores: TORRECILLA, J.
Director/Codirectores: SANCHEZ PENA, J.M.; URRUCHI, V.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2015
- Development of Photonic Integrated Circuit techniques for widely tunable Mid-IR sources based on Quantum Cascade Lasers
Autores: ORBE, L.J.

Director/Codirectores: CARPINTERO DEL, G.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2015

- Dimensionamiento, modelado e implementación de sistemas de distribución de potencia aplicados a Vehículos Eléctricos Híbridos basados en Pilas de Combustible
Autores: RAGA, M.C.
Director/Codirectores: LAZARO, A. ; BARRADO, A.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2015

- Fiber Optic Sensors and Self-reference Techniques for Temperature Measurements in Different Industrial Sectors
Autores: TAPETADO, A.
Director/Codirectores: VAZQUEZ, M.C.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2015

- HARDWARE DESIGN OF CRYPTOGRAPHIC ALGORITHMS FOR LOW-COST RFID TAGS
Autores: MARTIN, H.
Director/Codirectores: SAN MILLAN, E.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: ESCUELA POLITECNICA SUPERIOR
Año: 2015

- Instrumentación Multicanal con Implementación de Técnicas de Reducción de Ruido y Procesado En-línea para la Detección de Ultrasonidos. Aplicación a la Localización de Emisiones Acústicas de Descargas Parciales= Multichannel Instrumentation with Implementation of Denoising Techniques and Processing On-line for Ultrasonic Detection. Application to the Localization of Acoustic Emissions of Partial Discharges
Autores: BUA, I.
Director/Codirectores: GARCIA SOUTO, J.A.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2015

- New Spectroscopic Techniques and Architectures for Environmental and Biomedical Applications
Autores: MARTIN, P.
Director/Codirectores: ACEDO, P.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2015

- Sistema de Instrumentación Multicanal con interferómetro heterodino de fibra óptica. Aplicación a la detección y localización de emisiones acústicas de ultrasonidos procedentes de descargas parciales= Multichannel instrumentation system with optical fiber heterodyne interferometer. Application to the detection and localization of ultrasound acoustic emissions generated by partial discharges
Autores: POSADA, J.E.
Director/Codirectores: GARCIA SOUTO, J.A.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE LEGANES

Año: 2015

- Terahertz Time-Domain Spectroscopy to Characterize Graphene Nanostructures for New Optoelectronic Applications
Autores: DADRASNIA, E.
Director/Codirectores: LAMELA, H.
Universidad: UNIVERSIDAD CARLOS III DE MADRID
Centro donde se presentó: CAMPUS DE LEGANES
Año: 2015

Publicaciones y actividades de difusión de resultados

Publicaciones en revistas científicas internacionales

- AL HAJJAR, H.; MONTERO, D.S.; CONTRERAS LALLANA, P.; VAZQUEZ, M.C.; FRACASSO, B. Spectral and spatial characterization of perfluorinated graded-index polymer optical fibers for the distribution of optical wireless communication cells, *Applied optics*, Vol. 54, Núm. 5, 2015, pp. 1138-1145, ESTADOS UNIDOS DE AMERICA.
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- ALGORRI, J.F.; GARCIA, B.; GARCÍA, A.; URRUCHI, V. ; SANCHEZ PENA, J.M. Fiber Optic Temperature Sensor Based on Amplitude Modulation of Metallic and Semiconductor Nanoparticles in a Liquid Crystal Mixture, *Journal of Lightwave Technology*, Vol. 33, Núm. 12, 2015, pp. 2451-2455, ESTADOS UNIDOS DE AMERICA.
- ALGORRI, J.F.; GARCIA, B.; URRUCHI, V. ; SANCHEZ PENA, J.M. High-Sensitivity Fabry-Perot Temperature Sensor Based on Liquid Crystal Doped With Nanoparticles, *IEEE Photonics technology letters*, Vol. 27, Núm. 3, 2015, pp. 292-295, ESTADOS UNIDOS DE AMERICA.
- ALGORRI, J.F.; URRUCHI, V. ; BENNIS, N.; SANCHEZ PENA, J.M.; OTON, J.M. Cylindrical Liquid Crystal Microlens Array With Rotary Optical Power and Tunable Focal Length, *IEEE electron device letters*, Vol. 36, Núm. 6, 2015, pp. 582-584, ESTADOS UNIDOS DE AMERICA.
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Ponencias y Comunicaciones a congresos

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