

# **DEPARTAMENTO DE FISICA**

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### **Áreas de conocimiento:**

- FISICA APLICADA

## ÁREA DE CONOCIMIENTO: FISICA APLICADA

### Actividades de investigación

#### Proyectos Fin de Carrera

- Mejoras en un sistema de ultra-alto vacío: Incorporación de una nueva bomba iónica y diseño de una cámara de preparación e introducción de muestras  
*Director:* COLERA, I.  
*Centro donde se presentó:* Escuela Politécnica Superior  
*Año:* 2006
- Métodos de fusión de imágenes satelitarias de alta resolución espacial con imágenes multiespectrales, orientados a la mejora de la calidad de la información.  
*Director:* MELENDEZ, J.  
*Centro donde se presentó:* Escuela Politécnica Superior  
*Año:* 2006

### Publicaciones y actividades de difusión de resultados

#### Artículos en revistas extranjeras

- ALONSO, J.A.; SÁNCHEZ-BENITEZ, J.; FALCON, H.; MARTINEZ-LOPE, M.J.; ANGEL MUÑOZ CASTELLANOS  
Moderate-pressure synthesis and neutron diffraction study of new metastable oxides. , *Zeitschrift fur naturforschung section B-A Journal of Chemical Sciences*, 2006, pp. 1507-1514.
- ANGEL MUÑOZ CASTELLANOS; ALONSO, J.A.; MARTINEZ-LOPE, M.J.; DE LA CALLE, C.; FERNÁNDEZ DIAZ, M.T.  
High pressures synthesis, crystal, magnetic structure and magnetotransport of SrFe<sub>0.5</sub>Co<sub>0.5</sub>O<sub>3</sub> , *Journal of Solid State Chemistry*, 2006, pp. 3365-3370, ESTADOS UNIDOS DE AMERICA.
- ANGEL MUÑOZ CASTELLANOS; ALONSO, J.A.; MARTINEZ-LOPE, M.J.; FALCON, H.; GARCIA-HERNANDEZ, M.; MORAN, E.  
High pressures synthesis and study of the crystal structure and magnetic structure of the disordered SeNiO<sub>3</sub> and SeMnO<sub>3</sub> perovskites , *JOURNAL OF THE CHEMICAL SOCIETY-DALTON TRANSACTIONS* , 2006, pp. 4936-4943, REINO UNIDO.
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Synthesis and study of the crystallographic and magnetic structure of SeCoO<sub>3</sub>, *Physical review B*, 2006, pp. 104442-, ESTADOS UNIDOS DE AMERICA.
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On the use of critical gradient models in fusion plasma transport studies, *Physics of plasmas*, 2006, pp. 62301-, ESTADOS UNIDOS DE AMERICA.
- CASTRO, M. V. D. ; TERESA LEGUEY GALAN; ANGEL MUÑOZ CASTELLANOS; MONGE, M. A. ; PAREJA, R.  
Microstructure and tensile properties of Y2O3-dispersed titanium produced by arc melting , *Materials Science and Engineering A*, 2006, pp. 189-197, ESTADOS UNIDOS DE AMERICA.
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- GONZALEZ, R. R. ; CHEN, Y.; CACERES, D. ; VERGARA, I.  
Impurity Effects in Neutron-Irradiated Simple Oxides: Implications for Fusion Devices, *Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with M*, 2006, pp. 324-329.
- IÑARREA, J. ; PLATERO, G.  
Magnetoresistivity Modulated Response in Bichromatic Microwave Irradiated Two Dimensional Electron Systems, *Applied Physics Letters*, 2006, pp. 172114-, ESTADOS UNIDOS DE AMERICA.
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- ROLANDO ENRIQUE GUZMAN LOPEZ; EL-SAEID, Y. ; ARANDA, J. M. ; MELENDEZ, J. ; LOPEZ, F. ; PEREZ, J. L.  
Measurement of Temperature Increment in Compressive Quasi-static and Dynamic Tests using the Infrared Thermography , *Strain*, 2006, REINO UNIDO.
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## **Ponencias y Comunicaciones a congresos**

- ANGEL MUÑOZ CASTELLANOS  
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- ANGEL MUÑOZ CASTELLANOS; ALONSO, J.A.; MARTINEZ-LOPE, M.J.; MARTINEZ, J.L.  
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*Runaway Current Plateau Formation during LH Disruptions in the FTU Tokamak*, 2006.
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*Measurement of forest fire parameters with multi-spectral imaging in the medium infrared* , 8th International Conference on Quantitative Infrared Thermography, PADUA, ITALIA, 2006.
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### **Actividades de formación y movilidad de personal investigador**

#### **Estancias en otros centros**

- JOSE RAMON MARTIN SOLIS  
*Título:* Generación y dinámica de electrones runaway en plasmas tokamak  
*Centro Externo:* Oak Ridge National Laboratory (ORNL)  
*País:* ESTADOS UNIDOS DE AMERICA  
*Duración:* 01/06/2006 a 15/06/2006.