

DEPARTAMENTO DE FISICA

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Áreas de conocimiento:

- FISICA APPLICADA

ÁREA DE CONOCIMIENTO: FISICA APLICADA

Actividades de investigación

Tesis Doctorales

- Classical and quantum formulations of s1 xs2 and s3 Gowdy models coupled with matter
Autores: GOMEZ, D.
Director: VILLASEÑOR, E. J. S.; BARBERO, J.F.
Año: 2009

- Formación de barreras de transporte y transiciones de segundo orden en el borde del plasma
Autores: DELGADO, J. M.
Director: GARCIA, L.
Centro donde se presentó: FACULTAD CIENCIAS FISICAS
Año: 2009

Publicaciones y actividades de difusión de resultados

Publicaciones en revistas científicas internacionales

- AGUIRRE, M.V.; MARTIN, A.; PASTOR, J.Y.; LLORCA, J.; MONGE, M. A. ; PAREJA, R. Mechanical Behavior of W-Y₂O₃ and W-Ti Alloys from 25 A degrees C to 1000 A degrees C, *Metallurgical and Materials Transactions A-Physical Metallurgy and Materials Science*, Vol. 40A, Núm. 10, 2009, pp. 2283-2290, ESTADOS UNIDOS DE AMERICA.

- AUGER, M.A.; SAVOINI, B.; LEGUEY, T.; MONGE, M. A. ; PAREJA, R. ; VICTORIA, J. Mechanical characteristics of porous hydroxyapatite/oxide composites produced by post-sintering hot isostatic pressing , *Ceramics International*, Vol. 35, Núm. 6, 2009, pp. 2373-2380.

- BARBERO, J.F.; LEWANDOWSKI, J.; VILLASEÑOR, E. J. S. Flux-area operator and black hole entropy, *Physical review. D, Particles, fields, gravitation, and cosmology*, Vol. 80, Núm. 4, 2009, ESTADOS UNIDOS DE AMERICA.

- BARBERO, J.F.; VILLASEÑOR, E. J. S. On the computation of black hole entropy in loop quantum gravity, *Classical and quantum gravity*, Vol. 26, Núm. 3, 2009, REINO UNIDO.

- CALVO, I.; CARRERAS, B.; GARCIA, L. ; PEDROSA, M.A.; HIDALGO, C. Zonal flows and long-distance correlations during the formation of the edge shear layer in the TJ-II stellarator, *Plasma physics and controlled fusion*, Vol. 51, 2009, pp. 150031-1500316, REINO UNIDO.

- CALVO, I.; SANCHEZ, R. ; CARRERAS, B.A. Fractional Levy motion through path integrals, *Journal of physics. A, Mathematical and theoretical*, Vol. 42, 2009, pp. 55003-, REINO UNIDO.

- CARRERAS, B.; GARCIA, L. ; DELGADO, J. M.
Emergence and decay rate of edge plasma flow shear near a critical transition , *Plasma physics and controlled fusion*, Vol. 51, 2009, pp. 150031-1500316, REINO UNIDO.
- CASTRO, M. V. D. ; LEGUEY, T.; MUÑOZ, A.; ALL, E.
Microstructural characterization of Y₂O₃ ODS-Fe-Cr model alloys , *Journal of nuclear materials*, Vol. 386, 2009, pp. 449-452, HOLANDA.
- CASTRO, M. V. D. ; LOZANO-PERIS, S.; JENKINS, M.L.
Effects of Ion Irradiation on the Microstructure of an ODS/Fe12Cr Alloy , *MRS Symposium Proceedings*, Vol. 1125, 2009, pp. 7-19.
- CRUZ, R. M. D. L. ; KANYINDA-MALU, C.; IÑARREA, J.; CLARES, F. J. ; SANTALLA, S. N.
The effects of embedding medium and size on optical properties od II-VI core-shell nanocrystals, *Physica status solidi. A, Applied research*, 2009, ALEMANIA.
- EDDAHBI, M.O.; MONGE, M. A. ; GARCES, G.; PAREJA, R.
Microstructural characterization of an extruded Mg-Ni-Y-RE alloy processed by equal channel angular extrusion, *Journal of alloys and compounds*, Vol. 473, 2009, pp. 79-86, SUIZA.
- ESPOSITO, B.; MARTIN, J. R. ; GRANUCCI, G.; NOWAK, S.; GABELLIERI, L.; LAZZARO, E.; SMEULDERS, P.; MARASCHEK, M.; PAUTASSO, G.; STOBER, J.; TREUTTERER, W.; URSO, L.; VOLPE, F.; ZOHM, H.
Disruption control on FTU and ASDEX upgrade with ECRH, *Nuclear fusion*, Vol. 49, Núm. 6, 2009.
- GARCIA, E.; GUTIERREZ , E.; MONGE, A.; RAMIREZ, R. ; DE ANDRES, P.; DE ANDRES, A.; GOMEZ, B.
Crystal structure and charge-transport properties of N-trimethyltriindole: Novel p-type organic semiconductor single crystals, *ORGANIC ELECTRONICS*, Vol. 10, Núm. 4, 2009, pp. 643-652.
- GARCIA, L. ; CARRERAS, B.A.; CALVO, I.; LLERENA, I.
Topological characterization of the transition from laminar regime to fully developed turbulence in the resistive pressure-gradient-driven turbulence model, *Physical review. E, Statistical, nonlinear, and soft matter physics*, Vol. 80, 2009, pp. 464101-4641011, ESTADOS UNIDOS DE AMERICA.
- IÑARREA, J.
Interplay of DC current and microwave radiation in the magnetotransport of two-dimensional electron systems, *Physical review. B. Condensed matter and materials physics*, Vol. 80, 2009, pp. 193302-, ESTADOS UNIDOS DE AMERICA.
- IÑARREA, J.
Interplay of dc current and microwaves in the magnetotransport of two-dimensional electron systems, *Physical review. B. Condensed matter and materials physics*, Vol. 80, Núm. 19, 2009, ESTADOS UNIDOS DE AMERICA.
- IÑARREA, J.; LOPEZ, C.; PLATERO, G.
Tunable nuclear polarization with external stationary fields in weakly coupled double quantum dots, *Applied physics letters*, Vol. 94, Núm. 25, 2009, ESTADOS UNIDOS DE AMERICA.
- IÑARREA, J.; PLATERO, G.
Magnetoabsorption in two-dimensional electron systems, *Applied physics letters*, Vol. 95, 2009, pp. 162106-, ESTADOS UNIDOS DE AMERICA.

- KOMORI, A.; YAMADA, H.; SAKAKIBARA, S.; KANEBO, O.; KAWAHATA, K.; MUTOH, T.; OHYABU, N.; IMAGAWA, S.; IDA, K.; NAGAYAMA, Y.; SHIMOZUMA, T.; WATANABE, K.; MITO, T.; KOBAYASHI, M.; NAGAOKA, K.; SAKAMOTO, R.; YOSHIDA, N.; OHDACHI, S.; ASHIKAWA, N.; FENG, Y.; FAKUDA, T.; IGAMI, H.; INAGAKI, S.; KASAHARA, H.; KUBO, S.; KUMAZAWA, R.; MITARAI, O.; MURAKAMI, S.; NAKAMURA, Y.; NISHIURA, M.; HINO, T.; MASUZAKI, S.; TANAKA, K.; TOI, K.; WELLER, A.; YOSHINUMA, M.; NARUSHIMA, Y.; OHNO, N.; OKAMURA, T.; TAMURA, N.; SAITO, K.; SEKI, T.; SUDO, S.; TANAKA, H.; TOKUZAWA, T.; YANAGI, N.; YOKOYAMA, M.; YOSHIMURA, Y.; AKIYAMA, T.; CHIKARAISHI, H.; CHOWDHURI, M.; EMOTO, M.; EZUMI, N.; FUNABA, H.; GARCIA, L.; GONCHAROV, P.; GOTO, M.; ICHIGUCHI, K.; ICHIMURA, M.; IDEI, H.; IDO, T.; LIO, S.; IKEDA, K.; IRIE, M.; ISAYAMA, A.; ISHIGOOKA, T.; ISOBE, M.; ITO, T.; ITOH, K.; IWAMAE, A.; HAMAGUCHI, S.; HAMAJIMA, T.; KITAJIMA, S.; KADO, S.; KATO, D.; KATO, T.; KOBAYASHI, S.; KONDO, K.; MASAMUNE, S.; MATSUMOTO, Y.; MATSUNAMI, N.; MINAMI, T.; MICHAEL, C.; MIURA, H.; MIYAZAWA, J.; MIZUGUCHI, N.; MORISAKI, T.; MORITA, S.; MOTOJIMA, G.; MURAKAMI, I.; MUTO, S.; NAGASAKI, K.; NAKAJIMA, N.; NAKAMURA, Y.; NAKANISHI, H.; NAKANO, H.; NARIHARA, K.; NISHIMURA, A.; NISHIMURA, H.; NISHIMURA, K.; NISHIMURA, S.; NISHINO, N.; NOTAKE, T.; OBANA, T.; OGAWA, K.; OKA, Y.; OHISHI, T.; OKADA, H.; OKUNO, K.; ONO, K.; OSAKABE, M.; OSAKO, T.; OZAKI, T.; PETERSON, B.; SAKAUE, H.; SASAO, M.; SATAKE, S.; SATO, K.; SATO, M.; SHIMIZU, A.; SHIRATANI, M.; SHOJI, M.; SUGAMA, H.; SUZUKI, C.; SUZUKI, Y.; TAKAHATA, K.; TAKAHASHI, H.; TAKASE, Y.; TAKEIRI, Y.; TAKENAGA, H.; TODA, S.; TODO, Y.; TOKITANI, M.; TSUCHIYA, H.; TSUMORI, K.; URANO, H.; VESHCHEV, E.; WATANABE, F.; WATANABE, T.; WATANABE, T.; YAMADA, I.; YAMADA, S.; YAMAGISHI, O.; YAMAGUCHI, S.; YOSHIMURA, S.; YOSHINAGA, T.; MOTOJIMA, O.
Development of net-current free heliotron plasmas in the Large Helical Device, *Nuclear fusion*, Vol. 49, Núm. 10, 2009.
- LEGUEY, T.; ORTEGA, Y.; MONGE, M. A. ; CASTRO, M. V. D. ; ALL, E.
Void formation in ODS EUROFER produced by hot isostatic pressing, *Journal of nuclear materials*, Vol. 386, 2009, pp. 462-465, HOLANDA.
- LOZANO-PEREZ, S.; CASTRO, M. V. D. ; NICHOLLS, R.
Achieving Sub-Nanometre Particle Mapping with Energy-Filtered TEM, *Ultramicroscopy*, Vol. 109, 2009, pp. 1217-1228, HOLANDA.
- MADRIGAL, J.; HERNANDO, C.; GUIJARRO, M.; DIEZ, C.; MARINO, E.; de CASTRO, A.J.
Evaluation of Forest Fuel Flammability and Combustion Properties with an Adapted Mass Loss Calorimeter Device, *JOURNAL OF FIRE SCIENCES*, Vol. 27, 2009, pp. 323-342.
- MARQUIS, E.; HYDE, J.M.; SAXEY, D.W.; LOZANO-PEREZ, S.; CASTRO, M. V. D. ; HUDSON, D.; WILLIAMS, C.; HUMPHRY-BAKER, S.; SMITH, G.D.W.
Atomic-Scale Characterisation of Nuclear Reactor Materials, *Materials today*, Vol. 12-11, 2009, pp. 30-38, ESTADOS UNIDOS DE AMERICA.
- MARQUIS, E.; LOZANO-PEREZ, S.; CASTRO, M. V. D.
Grain Boundary Chemistry before and after Ion Implantation in ODS Steels, *Microscopy and microanalysis*, Vol. 15 SUPL 2, 2009, pp. 270-271, ESTADOS UNIDOS DE AMERICA.
- MONGE, M. A. ; AUGER, M.A.; LEGUEY, T.; ORTEGA, Y.; BOLZONI, L.; GORDO, E. ; PAREJA, R.
Characterization of Novel W Alloys Produced by HIP , *Journal of nuclear materials*, Vol. 386-388, 2009, pp. 613-617, HOLANDA.
- MUÑOZ, A.; ALONSO, J.A.; MARTINEZ, M.J.; FERNANDEZ , M.T.
On the magnetic structure of DyNiO₃, *Journal of Solid State Chemistry*, Vol. 182, Núm. 7, 2009, pp. 1982-1989, ESTADOS UNIDOS DE AMERICA.

- MUÑOZ SANTIUSTE, J. E. ; RODRIGUEZ , U.; GONZALEZ, J.; LAVIN, V.
Structural study of the Eu³⁺ environments in fluorozirconate glasses: Role of the temperature-induced and the pressure-induced phase transition processes in the development of a rare earth's local structure model, *The Journal of chemical physics*, Vol. 130, Núm. 15, 2009, ESTADOS UNIDOS DE AMERICA.
- ODETTE, G.; CUNNINGHAM, N.; MARQUIS, E.; LOZANO-PEREZ, S.; CASTRO, M. V. D. ; HOSEMANN, P.; STERGAR, E.; LIU, S.; SEGRE, C.
Atom-probe Tomography, Small Angle Neutron Scattering, Transmission Electron Microscopy, Positron Annihilation Spectroscopy and X-ray Absorption Spectroscopy Characterization of Nano-scale Features in Nanostructured Ferritic Alloys, *Microscopy and microanalysis*, Vol. 15 SUP2, 2009, pp. 244-245, ESTADOS UNIDOS DE AMERICA.
- RODRIGUEZ, A.; MORANA, B.; SANGRADOR, J.; RODRIGUEZ, T.; KLING, A.; ORTIZ, M.I.; BALLESTEROS, C. I.
Formation of Ge nanocrystals and evolution of the oxide matrix in as-deposited and annealed LPCVD SiGeO films , *Superlattices and microstructures* , Núm. 45, 2009, pp. 343-348, REINO UNIDO.
- RODRIGUEZ, J.; SANTALLA, S. N. ; PUSHPA, R.
Reconstruction of the second layer of Ag on Pt(111): Extended Frenkel-Kontorova model, *Physical review. B. Condensed matter and materials physics*, Vol. 79, Núm. 8, 2009, ESTADOS UNIDOS DE AMERICA.
- SALMI, G.J.; MONGE, M. A.
Influence of yttria additions on the oxidation behaviour of titanium prepared by powder metallurgy, *Scripta Materialia*, Vol. 60, Núm. 11, 2009, pp. 1008-1011, REINO UNIDO.
- SANCHEZ, J.; ACEDO, M.; ALONSO, A.; ALONSO, J.; ALVAREZ, P.; ASCASIBAR, E.; BACIERO, A.; BALBIN, R.; BARRERA, L.; BLANCO, E.; BOTIJA, J.; DE BUSTOS, A.; DE LA CAL, E.; CALVO, I.; CAPPA, A.; CARMONA, J.M.; CARRALERO, D.; CARRASCO, R.; CARRERAS, B.A.; CASTEJON, F.; CASTRO, R.; CATALAN, G.; CHMYGA, A.A.; CHAMORRO, M.; ELISEEV, L.; ESTEBAN, L.; ESTRADA, T.; FERNANDEZ, A.; FERNANDEZ, R.; FERREIRA, J.A.; FONTDECABA, J.M.; FUENTES, C.; GARCIA, L. ; GARCIA, M.I.; GARCIA, R.; GARCIA, J.M.; GUASP, J.; GUIMARAIS, L.; HAPPEL, T.; HERNANZ, J.; HIDALGO, C.; JIMENEZ, J.A.; JIMENEZ, A.; JIMENEZ, R.; JIMENEZ, D.; KIRPITCHEV, I.; KOMAROV, A.D.; KOZACHOK, A.S.; KRUPNIK, L.; LAPAYESE, F.; LINIERS, M.; LOPEZ, D.; LOPEZ, A.; LOPEZ, J.; LOPEZ, A.; LYSENKO, S.; MARCON, G.; MARTIN, F.; MAURIN, V.; MCCARTHY, K.J.; MEDINA, F.; MEDRANO, M.; MELNIKOV, A.V.; MENDEZ, P.; VAN MILLIGEN, B.; MIRONES, E.; NEDZELSKIY, I.S.; OCHANDO, M.; OLIVARES, J.; DE PABLOS, J.L.; PACIOS, L.; PASTOR, I.; PEDROSA, M.A.; DE LA PENA, A.; PEREIRA, A.; PEREZ, G.; PEREZ, D.; PETROV, A.; PETROV, S.; PORTAS, A.; PRETTY, D.; RAPISARDA, D.; RATTA, G.; REYNOLDS, J.M.; RINCON, E.; RIOS, L.; RODRIGUEZ, C.; ROMERO, J.A.; ROS, A.; SALAS, A.; SANCHEZ, M.; SANCHEZ, E.; SANCHEZ, E.; SARKSIAN, K.; SEBASTIAN, J.A.; SILVA, C.; SCHCHEPETOV, S.; SKVORTSOVA, N.; SOLANO, E.R.; SOLETO, A.; TABARES, F.; TAFALLA, D.; TARANCON, A.; TASCHEV, Y.; TERA, J.; TOLKACHEV, A.; TRIBALDOS, V.; VARGAS, V.I.; VEGA, J.; VELASCO, G.; VELASCO, J.L.; WEBER, M.; WOLFERS, G.; ZURRO, B.
Confinement transitions in TJ-II under Li-coated wall conditions, *Nuclear fusion*, Vol. 49, Núm. 10, 2009.
- SANCHEZ, R. ; NEWMAN, D.E.; LEBOEUF, J.N.; DECYK, V.K.; CARRERAS, B.A.
On the nature of transport across sheared poloidal, zonal flows in electrostatic, toroidal gyrokinetic tokamak turbulence, *Physics of plasmas*, Vol. 16, 2009, ESTADOS UNIDOS DE AMERICA.

- SANTALLA, S. N. ; KANYINDA-MALU, C.; CRUZ, R. M. D. L.
Variational method applied to determine the lattice parameter profiles in semiconductor heterostructures, *Physica E: Low-dimensional Systems and Nanostructures*, Vol. 41, Núm. 8, 2009, pp. 1604-1610, HOLANDA.
- SANTALLA, S.N.; KANYINDA-MALU, C.; CRUZ, R. M. D. L.
the effects of embedding medium and size on optical properties of II-VI core-shell nanocrystals, *Physica status solidi. A, Applied research*, 2009, ALEMANIA.
- TRIBALDOS, V.; SANCHEZ, J.; ACEDO, M.; ALONSO, A.; ALONSO, J.; ALVAREZ, P.; ASCASIBAR, E.; BACIERO, A.; DE BUSTOS, A.; DE LA CAL, E.; CALVO, I.; CAPPA, A.; CARMONA, J.M.; CARRALERO, D.; CARRASCO, R.; CATALAN, G.; CHMYGA, A.A.; CHAMORRO, M.; ELISEEV, L.; ESTEBAN, L.; GARCIA, L. ; ALL, E.
Confinement transitions in TJ-II under Li-coated wall condition , *Nuclear fusion*, Vol. 49, Núm. 10, 2009, pp. 104018-104028.
- TUCCILLO, A.A.; BIN, W.; BOTRUGNO, A.; BRACCO, G.; BRIGUGLIO, S.; BRUSCHI, A.; BURATTI, P.; CALABRO, G.; CARDINALI, A.; CASTALDO, C.; CENTIOLI, C.; ALESKSEYEV, A.; CESARIO, R.; CHEN, L.; CIRANT, S.; COCIOLOVO, V.; CRISANTI, F.; DE ANGELIS, R.; DE ANGELIS, U.; DI MATTEO, L.; DI TROIA, C.; ESPOSITO, B.; ANGELINI, B.; FOGACCIA, G.; FRIGIONE, D.; GABELLIERI, D.; GANDINI, F.; GIOVANNOZZI, E.; GRANUCCI, G.; GRAVANTI, F.; GROSSETTI, G.; GROSSO, G.; IANNONE, F.; ANNIBALDI, S.V.; KROEGLER, H.; LAZAREV, V.; LAZZARO, E.; LYUBLINSKI, I.E.; MADDALUNO, G.; MARINUCCI, M.; MAROCCHI, D.; MARTIN, J. R. ; MAZZITELLI, G.; MAZZOTTA, C.; APICELLA, M.L.; MELLERA, V.; MIRIZZI, F.; MIRNOV, S.; MONARI, G.; MORO, A.; MUZZINI, V.; ORSITTO, F.P.; PANACCIONE, L.; PACELLA, D.; PANELLA, M.; PEGORARO, F.; PERICOLI, V.; PODDA, S.; RATYNSKAIA, S.; RAVERA, G.; ROMANO, A.; RUOLINI, A.; SIMONETTO, A.; SMEULDERS, P.; SOZZI, C.; BARBATO, E.; STERNINI, E.; TILIA, B.; TUDISCO, O.; VERTKOV, A.; VITALE, V.; VLAD, G.; ZAGORSKI, R.; ZONCA, F.; BERTOCCHI, A.; BIANCALANI, A.
Overview of JET results , *Nuclear fusion*, Vol. 49, Núm. 10, 2009, pp. 104013-.
- WATKINS, N.W.; CREDSIGNTON, D.; SANCHEZ, R. ; ROSENBERG, S.; CHAPMAN, S.C.
Kinetic equation of linear fractional stable motion and application to the modelling of the scaling of intermittent bursts, *Physical review. E, Statistical, nonlinear, and soft matter physics*, Vol. 79, 2009, ESTADOS UNIDOS DE AMERICA.

Libros

- BRIZ, S.; BARRANCOS, J.; NOLASCO, D.; MELIAN, G.; PADRON, E.; PEREZ, N.
New Method for Estimating Greenhouse Gas Emissions from Livestock Buildings Using Open-Path FTIR Spectroscopy , *SPIE-The International Society for Optical Engineering*, 2009.
- BRIZ, S.; UGARTE, M.; DURAN, L.; RODRIGUEZ, R.M.; DE LA SERA, M.; GALI, R.; PICABEA, C.; FERNANDEZ, I.; DE CASTRO GONZALEZ, A.J.
Metodología y sistema de medida para el cálculo experimental de las emisiones contaminantes asociadas al tráfico rodado, *VII Convención Internacional sobre Medio Ambiente y Desarrollo*, CUBA, 2009.

Colaboraciones en obras colectivas

- ARANDA, J. M. ; de CASTRO, A.J. ; MELENDEZ, J. ; CORTES, F.; FERNANDEZ, I.; LOPEZ, F. *The design of an infrared sensor for the measurement of Martian surface temperature and gas concentration*, en: Proceedings of the 2009 Spanish Conference on Electron Devices, CRC Press & IEEE, ESTADOS UNIDOS DE AMERICA, pp. 301-304, 2009.
- GARCIA, E.; GALVAN, I.M.; de CASTRO, A.J. *Discriminant regression analysis to find homogeneous structures*, en: Lecture Notes in Computer Science, SPRINGER VERLAG, ALEMANIA, pp. 191-199, 2009.
- GARCIA, E.; GALVAN, I.M.; de CASTRO, A.J. *Supervised clustering via Principal Component Analysis in a retrieval application*, en: Proceedings of the Third International Workshop on Knowledge Discovery from Sensor Data, Association for computer Machinery (ACM), ESTADOS UNIDOS DE AMERICA, pp. 97-104, 2009.
- IÑARREA, J.; LOPEZ-MONIS, C.; PLATERO, G.; SANCHEZ, R. *Spin dynamics in double quantum dots*, en: Progress in Industrial Mathematics at ECMI 2008. Mathematics in Industry, 2009.
- IÑARREA, J.; PLATERO, G. *Effect of Microwave radiation on Weiss oscillations: creation and destruction of zero resistance states*, en: Proceedings of the 29th International Conference on the Physics of Semiconductors, pp. 167-, 2009.
- IÑARREA, J.; PLATERO, G. *Quenching of Microwave-induced resistance oscillations in Hall bars: role of frequency and temperature*, en: Proceedings of the 29th International Conference on the Physics of Semiconductors, pp. 225-, 2009.

Documentos de trabajo

- MONGE, M. A. ; LEGUEY, T.; AUGER, M.A.; SAVOINI, B.; PAREJA, R. ; MUÑOZ, A.; EDDAHBI, M.O. Informe técnico sobre la creación, dotación y funcionamiento del Laboratorio de Producción y Procesado de Materiales, 2009.

Ponencias y Comunicaciones a congresos

- ARANDA, J. M. ; de CASTRO, A.J. ; MELENDEZ, J. ; CORTES, F.; FERNANDEZ, I.; LOPEZ, F. *The Design of an Infrared Sensor for the Measurement of Martian Surface Temperature and Gas Concentration*; en: Spanish Conference on Electron Devices, 2009. CDE 2009, , 2009.
- AUGER, M.A. *Propiedades Mecánicas de Composites Porosos de Hidroxiapatita Preparados Mediante Compactación Isostática a Altas Temperaturas*, XXXII Reunión Bienal de la Real Sociedad Española de Física, CIUDAD REAL, ESPAÑA, 2009.
- AUGER, M.A.; LEGUEY, T.; MUÑOZ, A.; MONGE, M. A. ; CASTRO, M. V. D. ; FERNANDEZ, P.; GARCES, G.; PAREJA, R. *Microstructure and Mechanical Properties of Ultrafine-Grained ODS and non-ODS Fe-14Cr Model Alloys* , 14th International Conference on Fusion Reactor Materials (ICFMR-14), Sapporo, JAPON, 2009.

- AUGER, M.A.; SAVOINI, B.; LEGUEY, T.; MONGE, M. A. ; MUÑOZ, A.; PAREJA, R. ; VICTORIA, J.
Propiedades mecánicas de composites porosos de Hidroxiapatita preparados mediante compactación isostática a altas temperaturas; en: ACTAS DE LA XXXII REUNIÓN BIENAL DE FÍSICA. Simposio de Física del Estado Sólido, , 2009.
- AUGER, M.A.; TARDIO, M. M. ; PAREJA, R. ; VICTORIA, J.
Caracterización dieléctrica de composites basados en hidroxiapatita , IX Reunión Nacional de Electrocerámica (EC09), LEGANES, ESPAÑA, 2009.
- BRIZ, S.; BARRANCOS, J.; NOLASCO, D.; MELIAN, G.; PADRON, E.; PEREZ, N.
New Method for Estimating Greenhouse Gas Emissions from Livestock Buildings Using Open-Path FTIR Spectroscopy; en: Remote Sensing of Clouds and the Atmosphere XI, 2009.
- BRIZ, S.; UGARTE, M.; DURAN, L.; RODRIGUEZ, R.M.; DE LA SERNA, M.; GALI, R.; PICABEA, C.; FERNANDEZ, I.; DE CASTRO GONZALEZ, A.J.
Metodología y sistema de medida para el cálculo experimental de las emisiones contaminantes asociadas al tráfico rodado , IV Congreso de Gestión Ambiental, LA HABANA, CUBA, 2009.
- CALVO, I.; CARRERAS, B.; GARCIA, L. ; PEDROSA, M.A.; HIDALGO, C.
Zonal flow-based interpretation of long-distance correlations in the edge shear layer of TJ-II, 36th European Conference on Controlled Fusion and Plasma Physics , SOFIA, BULGARIA, 2009.
- CASTRO, M. V. D.
Microstructural Characterization of Irradiated ODS and Fe-Cr alloys, The Minerals, Metals and Materials Society Conference (TMS), ESPAÑA, 2009.
- CASTRO, M. V. D. ; LEGUEY, T.; AUGER, M.A.; LOZANO-PEREZ, S.; L. M.
Analytical Characterization of Secondary Phases and Void Distributions in an Ultrafine-grained ODS Fe-14Cr Model Alloy; en: Journal of Nuclear Materials, (doi:10.1016/j.jnucmat.2010.12.067), 2009.
- CASTRO, M. V. D. ; LEGUEY, T.; AUGER, M.A.; MARQUIS, E.; LOZANO-PEREZ, S.; JENKINS, M.L.
High Resolution Analytical Characterization of Nanodispersoids in ultrafine-grained ODS Fe-14Cr Model Alloys , ICFM14, SAPPORO, JAPON, 2009.
- CASTRO, M. V. D. ; LOZANO-PEREZ, S.; MARQUIS, E.; JENKINS, M.L.
Microstructural Characterization of Irradiated ODS and Fe-Cr alloys, The Minerals, Metals and Materials Society Conference (TMS), SAN FRANCISCO, ESTADOS UNIDOS DE AMERICA, 2009.
- CASTRO, M. V. D. ; LOZANO-PEREZ, S.; MARQUIS, E.; JENKINS, M.L.
Stability of Nanoparticles in an Oxide Dispersion Strengthened Alloy , EMAG 2009, SHEFFIELD, REINO UNIDO, 2009.
- CASTRO, M. V. D. ; MARQUIS, E.; LOZANO-PEREZ, S.; JENKINS, M.L.
: High Resolution Microanalysis of ODS Steels, ICFM14, SAPPORO, JAPON, 2009.
- CORTES, F.; ARANDA, J. M. ; SANCHEZ-REILLO, R.; MELENDEZ, J. ; LOPEZ, F.
Spectral Selection for a Biometric Recognition System based on Hand Veins Detection through Image Spectrometry ; en: Proceedings of the Special Interest Group on Biometrics and Electronic Signatures , (Proceedings of the Special Interest Group on Biometrics and Electronic Signatures (pp. 81-92)), ALEMANIA, 2009.
- FERNANDEZ, P.; LAPEÑA, J.; EDDAHBI, M.O.; AUGER, M.A.; LEGUEY, T.; MONGE, M. A. ; PAREJA, R.

Microstructural and Mechanical Characteristics of EUROFER 97 Processed by ECAP, 14th International Conference on Fusion Reactor Materials (ICFMR-14), Sapporo, JAPON, 2009.

- FUENTES, M.L.; CAMPOS, M. ; COLERA, I.
Improvement of sintered steels properties by microalloying and grain size decrease; en: Proceedings de International Powder Metallurgy Congress & Exhibition (EURO PM'09), 2009.
- GARCIA, E.; GALVAN, I. M. ; DE CASTRO, A.
Supervised clustering via principal component analysis in a retrieval application; en: Proceedings of the Third International Workshop on Knowledge Discovery from Sensor Data, ACM, 2009.
- GARCIA, E.; GALVAN, I. M. ; DE CASTRO GONZALEZ, A.J.
Discriminant Regression Analysis to Find Homogeneous Structures; en: Proceedings. Lecture Notes in Computer Science, pp 191-199 Springer 2009, Burgos, Spain September, 2009, , 2009.
- GUZMAN, R.; MELENDEZ, J. ; ARANDA, J. M. ; LOPEZ, F. ; PEREZ, J. L.
On the infrared thermography application to dynamic industrial processes, Workshop 2009 on theoretical and experimental approaches for dynamic industrial processes, LEGANES, ESPAÑA, 2009.
- IÑARREA, J.; PLATERO, G.
Role of an in-plane magnetic field in 2D magnetotransport assisted by microwaves , 18th International Conference on Electronic Properties of Two-dimensional Systems and 14 th International Conference on Modulated Semiconductor Structures., KOBE, JAPON, 2009.
- IÑARREA, J.; PLATERO, G.
Magnetotransport excited by linearly polarized radiation in 2D electron systems, Optics of Excitons in confined systems, MADRID, ESPAÑA, 2009.
- LEGUEY, T.
Developing radiation resistant ODS Fe model alloys , 1st FEMAS workshop, LISBOA, PORTUGAL, 2009.
- LEGUEY, T.; MUÑOZ, A.; MONGE, M. A. ; SAVOINI, B.; AUGER, M.A.; PAREJA, R.
Powder Metallurgy Development of Fusion Structural Materials , 1st Workshop on Fusion Energy Materials Science-FEMaS, Lisboa, PORTUGAL, 2009.
- LOPEZ-MONIS, C.; DOMINGUEZ, F.; IÑARREA, J.; PLATERO, G.
Spin dynamics in Double Quantum Dots: role of Hyperfine Interaction , XXXII Reunión bienal de la Real Sociedad Española de Física. Simposio de Física del Estado Sólido, CIUDAD REAL, ESPAÑA, 2009.
- LOPEZ-MONIS, C.; IÑARREA, J.; PLATERO, G.
Magnetotransport through double quantum dots: dynamical nuclear polarization induced by Hyperfine interaction. SPINTECH V , International conference on Spintronics and Quantum Information Technology, CRACOVIA, POLONIA, 2009.
- MARQUIS, E.; LOZANO-PEREZ, S.; CASTRO, M. V. D.
Irradiation effects on grain boundary chemistry in ODS Fe-12wt.%Cr alloys , Microscopy and Microanalysis 2009, RICHMOND VIRGINIA, ESTADOS UNIDOS DE AMERICA, 2009.
- MUÑOZ, A.; MONGE, M. A. ; SAVOINI, B.; RABANAL, M.E.; GARCES, G.; PAREJA, R.
La₂O₃-reinforced W and W-V alloys produced by hot isostatic pressing , 14th International Conference on Fusion Reactor Materials (ICFRM-14), SAPPORO, JAPON, 2009.
- MUÑOZ, A.; MONGE, M.A.; SAVOINI, B.; RABANAL, M. E. ; GARCES, G.; PAREJA, R. ; AUGER, M.A.

La₂O₃-reinforced W and W-V Alloys Produced by Hot Isostatic Pressing, 14th International Conference on Fusion Reactor Materials (ICFMR-14), SAPPORO, JAPON, 2009.

- NEWMAN, D.E.; SANCHEZ, R. ; LEBOEUF, J.N.; DECYK, V.K.
Mechanisms for nondiffusive transport across sheared flows in ITG turbulence, 36th EPS Conference of Plasma Physics, Sofia, BULGARIA, 2009.
- NICHOLLS, R.J.; LOZANO-PEREZ, S.; CASTRO, M. V. D.
Understanding the features in the low-loss Y­2O₃ EELS spectrum , EMAG 2009, SHEFFIELD, REINO UNIDO, 2009.
- ODETTE, G.; CUNNINGHAM, N.J.; MARQUIS, E.; LOZANO-PEREZ, S.; CASTRO, M. V. D. ; HOSEMANN, P.; STERGAR, E.; LIU, S.; SEGRE, C.
Atom-probe Tomography, Small Angle Neutron Scattering, Transmission Electron Microscopy, Positron Annihilation Spectroscopy and X-ray Absorption Spectroscopy Characterization of Nano-scale Features in Nanostructured Ferritic Alloys , Microscopy and Microanalysis 2009, RICHMOND VIRGINIA, ESTADOS UNIDOS DE AMERICA, 2009.
- PARENTE, P.; BURGOS, O.; AUGER, M.A.; MONGE, M. A. ; SANCHEZ, A.J.
Water Based Processing of Nano Y₂O₃ Dispersed Hydroxyapatite Composites , Fourth International Conference on Shaping of Advanced Ceramics (SHAPING 4), MADRID, ESPAÑA, 2009.
- PARENTE, P.; ORTEGA, Y.; MONGE, M. A. ; TUCCI, A.; ESPOSITO, L.; SAVOINI, B.; SÁNCHEZ-HERENCIA, A.J.
Investigation of tensile and compressive stresses in Al₂O₃ layers by Positron Annihilation Spectroscopy (PAS) , XI Congreso internacional de la European Ceramic Society, CRACOVIA, POLONIA, 2009.
- RODRIGUEZ, A.; MORANA, B.; SANGRADOR, J.; RODRIGUEZ, T.; KLING, A.; ORTIZ, M.I.; BALLESTEROS, C. I.
Formation of Ge nanocrystals and evolution of the oxide matrix in as-deposited and annealed LPCVD SiGeO films , 9th International Workshop on Beam Injection Assessment of Microstructure in Semiconductors TOLEDO, ESPAÑA, 2009.
- SANCHEZ, R. ; NEWMAN, D.E.; LEBOEUF, J.N.; DECYK, V.K.
Mechanisms for subdiffusion across zonal flows in gyrokinetic simulations of ITG turbulence, Atlanta, ESTADOS UNIDOS DE AMERICA, 2009.
- SANCHEZ, R. ; NEWMAN, D.E.; LEBOEUF, J.N.; DECYK, V.K.; CARRERAS, B.A.
Understanding the mechanisms of subdiffusion across poloidal zonal flows in gyrokinetic simulations of ITG turbulence, US Task Transport Force (TTF) Meeting, San Diego, ESTADOS UNIDOS DE AMERICA, 2009.

Actividades de formación y movilidad de personal investigador

Estancias en otros centros

- TERESA LEGUEY GALAN
Título: Usuario del laboratorio de Microscopía Electrónica (colaboración proyecto FEMAS)
Centro Externo: Department of Materials University of Oxford
País: REINO UNIDO
Duración: 31/05/2009 a 10/06/2009.