



## ACTIVIDAD INVESTIGADORA DE DOCTORANDOS DEL PROGRAMA DE DOCTORADO "INVESTIGACIÓN FORESTAL AVANZADA". AÑO 2014

### Artículos:

Algeet Abarquero N, Sánchez Azofeifa A, Bonatti J, Marchamalo M. 2014. Land cover dynamics in Osa Region, Costa Rica: secondary forest is here to stay. *Regional Environmental Change*. doi: 10.1007/s10113-014-0714-9.

Alvarez S, Blanquer M, Rubio A. 2014. Carbon footprint using the compound method based on financial accounts. The case of the School of Forestry Engineering, Technical University of Madrid. *Journal of Cleaner Production*, 66: 224-232.

Alvarez S, Ortiz C, Díaz Pinés E, Rubio A. 2014. Influence of tree species composition, thinning intensity and climate change on carbon sequestration in Mediterranean mountain forests: a case study using the CO2fix model. *Mitigation and Adaptation Strategies for Global Change* (in press)

Alvarez S, Rubio A. 2014. Compound method based on financial accounts versus process life cycle analysis in product carbon footprint: a comparison using wood pallets. *Ecological Indicators*, 49: 88-94.

Blázquez Cabrera S, Bodin Ö, Saura S. 2014. Indicators of the impacts of habitat loss on connectivity and related conservation priorities: Do they change when habitat patches are defined at different scales?. *Ecological Indicators*, 45: 704-716.

Daza A, Rey AI, López Carrasco C, López Bote CJ. 2014. Influence of feeding system on growth performance, carcass characteristics and meat and fat quality of Avileña-Negra Ibérica calves breed. *Spanish Journal of Agricultural Research*, 12 (2): 409-418.

Fernández FG, Esteban LG, de Palacios P, Simón C, García Iruela A, de la Fuente J. 2014. Sorption and thermodynamic properties of *Terminalia superba* Engl. & Diels and *Triplochiton scleroxylon* K. Schum. through the 15, 35 and 50 °C sorption isotherms. *European Journal of Wood and Wood Products*, 72 (1): 99-106.

Fernández V, Guzmán P, Peirce CAE, McBeath TM, Khayet M, McLaughlin MJ. 2014. Effect of wheat phosphorus status on leaf surface properties and permeability to foliar-applied phosphorus. *Plant and Soil*, 384 (1-2): 7-20.

Fernández V, Sancho Knapik D, Guzmán P, Peguero Pina JJ, Gil L, Karabourniotis G, Khayet M, Fasseas C, Heredia Guerrero JA, Heredia A, Gil Pelegrín E. 2014. Wettability, polarity and water absorption of Holm oak leaves: effect of leaf side and age. *Plant Physiology*, 166 (1): 168-180.

Guzmán P, Fernández V, García ML, Khayet M, Fernández A, Gil L. 2014. Localization of polysaccharides in isolated and intact cuticles of eucalypt, poplar and pear leaves by enzyme-gold labelling. *Plant Physiology and Biochemistry*, 76: 1-6.



Guzmán P, Fernández V, Graça J, Cabral V, Kayali N, Khayet M, Gil L. 2014. Chemical and structural analysis of *Eucalyptus globulus* and *E. camaldulensis* leaf cuticles: a lipidized cell wall region. *Frontiers in Plant Science*, 5:481. doi: 10.3389/fpls.2014.00481.

Guzmán P, Fernández V, Khayet M, García ML, Fernández A, Gil L. 2014. Ultrastructure of plant leaf cuticles in relation to sample preparation as observed by transmission electron microscopy. *Scientific World Journal*, ID963921, 9 pages.

Iglesias Merchán C, Díaz Balteiro L, Soliño M. 2014. Noise pollution in national parks: Soundscape and economic valuation. *Landscape and Urban Planning*, 123: 1-9.

López Sánchez A, Schroeder J., Roig S, Sobral M, Dirzo R. 2014. Effects of Cattle Management on Oak Regeneration in Northern Californian Mediterranean Oak Woodlands. *PLoS ONE*, 9(8): e105472.

Mateo Sánchez MC, Cushman S, Saura S. 2014. Connecting endangered brown bear subpopulations in the Cantabrian Range (NW Spain). *Animal Conservation*, 17: 430-440.

Mateo Sánchez MC, Cushman S, Saura S. 2014. Scale dependence in habitat selection: the case of the endangered brown bear (*Ursus arctos*) in the Cantabrian Range (NW Spain). *International Journal of Geographical Information Science*, 28: 1531-1546.

Morales Molino C, García Antón M. 2014. Vegetation and fire history since the last glacial maximum in an in landarea of the western Mediterranean Basin (Northern Iberian Plateau, NW Spain). *Quaternary Research*, 81, 63-77.

de Palacios P, Esteban LG, Fernández FG, García-Iruela A, Conde M, Román-Jordán E. 2014. Comparative wood anatomy of *Juniperus* from Macaronesia. *IAWA Journal* 35 (2): 186-198.

Pardos M, Calama R, Mayoral C, Madrigal G, Sánchez González M. 2014. Addressing post-transplant summer water stress in *Pinus pinea* and *Quercus ilex* seedlings. *iForest- Biogeosciences and Forestry*, 8: 348-358. doi: 10.3832/ifor1256-007.

Perdiguero P, Collada C, Soto A. 2014. Novel dehydrins lacking complete K-segments in Pinaceae: The exception rather than the rule. *Frontiers in Plant Science*, 5: 682. doi: 10.3389/fpls.2014.00682.

Perea R, Venturas M, Gil L. 2014. Seed predation on the ground or in the tree? Size-related differences in behaviour and ecology of granivorous birds. *Acta Ornithologica*, 49: 119–130.

Rodríguez Calcerrada J, López R, Salomón R, Gordaliza G, Valbuena Carabaña M, Oleksyn J, Gil L. 2014. Stem CO<sub>2</sub> efflux in six co-occurring tree species: underlying factors and ecological implications. *Plant, Cell and Environment*. doi: 10.1111/pce.12463.

Venturas M, Fernández V, Nadal P, Lucena JJ, Guzman P, Gil L. 2014. Root iron up take efficiency of *Ulmus laevis* and *U. minor* and their distribution in soils of the Iberian Peninsula. *Frontiers in Plant Science*, 5: 104. doi: 10.3389/fpls.2014.

Venturas M, Fuentes Utrilla P, López R, et al. 2014. *Ulmus laevis* in the Iberian Peninsula: a review of its ecology and conservation. *iForest – Geosciences and Forestry*. doi: 10.3832/ifor1201-008.



Venturas M, Nanos N, Gil L. 2014. There productive ecology of *Ulmus laevis* Pallas in a transformed habitat. *Forest Ecology and Management*, 312: 170-178.

### Comunicaciones en congresos:

Alvarez S, Aragón E, Vignote S, Rubio A. 2014. Huella de Carbono de una empresa de parques y tarimas de madera. Aplicación del método compuesto de las cuentas contables. III WorkshopRed científica de mitigación de emisiones de gases de efecto invernadero en el sector agroforestal. Valencia, España. 10-12 Abril 2014. Poster.

Alvarez S, Ortiz C, Díaz Pinés E, Rubio A. 2014. Evolución de los reservorios de carbono de masas forestales dominadas por *Quercus pyrenaica* vs *Pinus sylvestris*. II WorkshopRed científica de mitigación de emisiones de gases de efecto invernadero en el sector agroforestal. Zaragoza, España. 11 Abril 2013.

Alvarez S, Ortiz C, Díaz Pinés E, Rubio A. 2014. Modelización de Carbono en suelo y biomasa en bosques del Sistema Central: masas mixtas vs. masas puras. 6º Congreso Forestal Español. Vitoria, España. 10 Junio 2013.

Alvarez S, Rubio A. 2014. Nueva propuesta de cálculo de Huella de Carbono Aplicación a la Escuela de Ingenieros de Montes. IIV workshop de la sociedad hispano americana de análisis input-output (shaio). Albacete, España. 25-26 Septiembre 2014.

Blázquez Cabrera S, Bodin Ö, Saura S. 2014. Do impacts of habitat loss and connectivity conservation priorities change when habitat units are defined at different spatial scales?. XXI Congreso de al AEET. Pamplona, España. 6-10 Mayo 2013.

Blázquez Cabrera S, Bodin Ö, Saura S. 2014. Do the assessed impacts of habitat loss on connectivity and related conservation priorities change when habitat units are defined at different spatial scales?. Congreso Europeo de la IALE. Manchester, Reino Unido. 9-12 Septiembre 2013.

Escribano Bombín MM, Mataix González C, Escribano Bombín R. 2014. Propuesta de gestión de las labores mineras abandonadas en la Comunidad de Madrid. Presente y futuro de los paisajes mineros del pasado: estudios sobre minería, metalurgia y poblamiento. VIII Congreso Internacional sobre Minería y Metalurgia históricas en el sudoeste Europeo. Granada, España. 11-15 junio 2014.

Fernández V, Guzmán P, Sancho Knapik D, Peguero Pina JJ, Khayet M, Gil L, Gil Pelegrín E. 2014. Wettability and other surface properties of *Quercus ilex* leaves as affected by leaf side and developmental stage. Plant Biology Europe FESPB/EPSO Congress. Dublin, Ireland. 22-26 June 2014.

Gómez Manzanero M, Mateo Sánchez MC, Ballesteros F, Saura S, Blanco JC. 2014. Using a connectivity model to design cantabrian bear corridor restoration. 23rd Conference on Bear Research and Management. Thessaloniki. 5-10 October 2014.

González del Tánago M, García de Jalón D, Martínez-Fernández V, Gurnell A, Rinaldi M. 2014. Hydromorphological processes and indicators for river characterization and restoration. XVII Congress of the Iberian Association of Limnology. Santander, España. July 2014.



Guzmán P, Fernández V, Gil L. 2014. Localization of polysaccharides in isolated and intact leaf cuticles of model species by enzyme-gold labelling. Plant Biology Europe FESPB/EPSO Congress 2014. Dublin, Ireland. 22-26 June 2014.

Guzmán P, Gil L, Fernández V. 2014. Hacia un nuevo modelo de la cutícula vegetal: ¿una pared lipidizada? IV Coloquio de Primavera sobre Ecofisiología Forestal. Añón de Moncayo, Zaragoza, Spain. 7-9 May 2014.

Iglesias Merchan C, Diaz Balteiro L. 2014. Planificación acústica y paisajes sonoros: Conceptos técnicos y bases científicas para su gestión en espacios naturales protegidos y en medios urbanos. XII Congreso Nacional del Medio Ambiente (XII CONAMA). Madrid, España. Noviembre 24-27.

López Carrasco C, Gómez MJ, Carpintero JM, Brañas J, Roig S. 2014. Efecto residual de la aplicación de fertilizantes de nueva generación sobre la producción, composición y diversidad de pastos herbáceos en una dehesa toledana. 53ª Reunión Científica de la SEEP. Potes, Santander. 9-12 junio 2014.

López Rodríguez A, Escribano Bombín R, Hernández Jiménez V, Bell S. 2014. The impact of mind on nature lessons learned from the ecology-aesthetics interplay. Eclas, Conference Porto, School of Sciences University of Porto. Porto, Portugal. 21 to 23 September 2014.

López Sánchez A, San Miguel A, Roig S. 2014. Resilience of Mediterranean ecosystems: tree and management effects on variability of herbaceous pastures in a dry year. 25<sup>th</sup> General Meeting of the EGF. Aberystwyth, Wales, UK. 7-11 September 2014.

Maroto De Mercado J, García De Jalón D, Bejarano MD, González Del Tánago M, Martínez Fernández V. Exploring the influence of sediment size on river corridor changes downstream from dams (Spain). 10th International Symposium on Ecohydraulics. Trondheim, Norway. June 2014.

Martínez Fernández V, González del Tánago M, Maroto de Mercado J, García de Jalón D. Flow regulation and vegetation changes in gravel bed rivers (Upper Esla Basin, NW Spain). 10th International Symposium on Ecohydraulics. Trondheim, Norway. June 2014.

Miranda JC, Battipaglia G, Gil L. 2014. Physiological changes in Pinus canariensis after a volcanic eruption based on carbon and oxygen stable isotope measurements. MEDPINE-5: 5th International conference on Mediterranean pines. Solsona, Sapin. 22-26 Septiembre 2014.

Moreno Amat EG, Mateo R, Nieto Lugilde D, Morueta Holme N, Svenning JC, García-Amorena I. Assessing the effects of complexity in cross-temporal transferability of species distribution modelling predictions using palaeo botanical data. 9th European Paleobotany and Palynology Conference. Padova, Italy. 26-31 August 2014.

Moreno Amat E, Rubiales JM, Morales del Molino C, García-Amorena I. More macrofossils are needed to successfully model late-Quaternary vegetation. 9th European Paleobotany and Palynology Conference. Padova, Italy. 26-31 August 2014.

Ortiz C, Gutiérrez A, Díaz Pinés E, Benito M, Rubio A. 2014. Respuesta de la respiración del suelo a la temperatura y humedad del suelo en sistemas forestales mediterráneos. III



CAMPUS  
DE EXCELENCIA  
INTERNACIONAL

Programa de Doctorado en  
**INVESTIGACIÓN FORESTAL AVANZADA**  
ETSI Montes. Universidad Politécnica de Madrid.



Workshop sobre mitigación de emisiones de gases de efecto invernadero provenientes del sector agroforestal. Valencia, España. 9-10 de Abril 2014.

Perdiguero P, Chano V, Soto A, Collada C. 2014. Expression of dehydrin proteins from stone pine during water stress. MEDPINE-5: 5<sup>th</sup> International Conference on Mediterranean Pines. Solsona, Spain. 22-26 September 2014.

Perdiguero P, de Vega Bartol J, Miguel C. Soto A, Collada C. 2014. Genetic transformation of *Pinus pinaster* Ait. with genes involved in water stress response. 3<sup>rd</sup> International Conference IUFRO Somatic embryogenesis and other vegetative propagation technologies. Vitoria, Spain. 8-12 September 2014.

#### **Estancias en centros de investigación / universidades:**

Blázquez, Sandra. Centro de investigación: UFZ (Helmholtz Centre for Environmental Research). Departamento: Ecological Modelling. Leipzig (Alemania). 25/05/2014 al 25/08/2014.

López Sánchez, Aida. Georg-August-Universität Göttingen. Göttingen (Germany). 07/05/2014 al 31/07/2014.

Mateo Sánchez, María Cruz. Department of Forest Zoology and Forest Conservation. University of Göttingen. Alemania. 28/06/2014 al 21/07/2014.

Mayoral López, Carolina. Faculty of Chemistry and Biology/NTNU Norwegian University of Science and Technology. Norway. 01/05/2014 al 01/08/2014.

Moreno Amat, Elena. Aarhus University. Aarhus (Dinamarca). 26/02/2014 al 2/06/2014.

Ortiz Oñate, Carlos. Karlsruhe Institute of Technology Institute of Meteorology and Climate Research Atmospheric Environmental Research. Garmisch-Partenkirchen (Alemania). 22/09/2014 al 20/12/2014.

Salomón Moreno, Roberto. Laboratory of Plant Ecology. Faculty of Bioscience Engineering. Ghent University. Gante (Bélgica). 01/04/2014 al 31/05/2014

Simón García, Cristina. Georg August University of Göttingen. Göttingen (Germany). 07/01/2014 al 11/04/2014.

Venturas, Martín David. Department of Biology, California State University Bakersfield. Bakersfield (USA). 15/01/2014 al 14/01/2015.