

## LIST OF PUBLICATIONS

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#### Peer reviewed publications (ISI)

- 1.** O. Grau, J. Penuelas, B. Ferry, V. Freycon, L. Blanc, M. Desprez, C. Baraloto, J. Chave, L. Descroix, A. Dourdain, S. Guitet, I. Janssens, J. Sardans, B. Hérault. *Nutrient-cycling mechanisms other than the direct absorption from soil may control forest structure and dynamics in poor Amazonian soils* (2017) **Scientific Reports**, 7:45017
- 2.** O. Grau, J. Geml, A. Pérez-Haase, J.M. Ninot, T. Semenova, J. Penuelas. *Abrupt changes in the composition and function of fungal communities along an environmental gradient in the High Arctic* (2017) **Molecular Ecology**, 26:4798-4810
- 3.** J. Peñuelas, J. Sardans, I. Filella, M. Estiarte, J. Llusà, R. Ogaya, J. Carnicer, M. Bartrons, A. Rivas-Ubach, O. Grau, G. Peguero, O. Margalef, S. Pla-Rabés, C. Stefanescu, D. Asensio, C. Preece, L. Liu, A. Verger, A. Barbeta, A. Achotegui-Castells, A. Gargallo-Garriga, D. Sperlich, G. Farré-Armengol, M. Fernández-Martínez, D. Liu, C. Zhang, I. Urbina, M. Camino-Serrano, M. Vives-Inglà, B. D. Stocker, M. Balzarolo, R. Guerrieri, M. Peaucelle, S. Marañón-Jiménez, K. Bórnez-Mejías, Z. Mu, A. Descals, A. Castellanos, J. Terradas (2017) *Impacts of Global Change on Mediterranean Forests and Their Services*. **Forests**, 8, 463
- 4.** I. Urbina, J. Sardans, O. Grau, C. Beierkuhnlein, A. Jentsch, J. Kreyling, J. Peñuelas. *Plant Community composition affects the species biogeochemical niche* (2017) **Ecosphere** 8 (5)
- 5.** J. Peñuelas, J. Sardans, I. Filella, M. Estiarte, J. Llusà, R. Ogaya, J. Carnicer, M. Bartrons, A. Rivas-Ubach, O. Grau, G. Peguero, O. Margalef, S. Pla-Rabés, C. Stefanescu, D. Asensio, C. Preece, L. Liu, A. Verger, L. Rico, A. Barbeta, A. Achotegui-Castells, A. Gargallo-Garriga, D. Sperlich, G. Farré-Armengol, M. Fernández-Martínez, D. Liu, C. Zhang, I. Urbina, M. Camino, M. Vives, D. Nadal-Sala, S. Sabaté, C. Gracia, J. Terradas (2017) *Assessment of the impacts of climate change on Mediterranean terrestrial ecosystems based on data from field experiments and long-term monitored field gradients in Catalonia*. **Environmental and Experimental Botany**
- 6.** A. Anadon-Rosell, J.M. Ninot, S. Palacio, O. Grau, S. Nogués, E. Navarro, M. del C. Sancho, E. Carrillo. *Four years of experimental warming do not modify the interaction between subalpine shrub species* (2017) **Oecologia**, 183:1167-1181
- 7.** J. Sardans, O. Grau, H. Chen, I. Janssens, P. Ciais, S. Piao, J. Penuelas. *Changes in nutrient concentrations of leaves and roots in response to Global Change factors* (2017) **Global Change Biology**, 23(9)

- 8.** O. Grau, J.M. Ninot, A. Pérez-Haase, Terry V. Callaghan. *Plant co-existence and high-arctic vegetation composition in three common plant communities in NE Greenland* (2014) **Polar Research** 33, 19235
- 9.** I. Barrio, C.G. Bueno, L. Nagy, S. Palacio, O. Grau, I. Munilla, M.B. García, A.I. García-Cervigón, M. Gartzia, A. Gazol, C. Lara-Romero, A. Anadon-Rosell, J.M. Ninot, C. Chocarro, C.L. Alados, F. Fillat, R. Zamora. *Alpine ecology in the Iberian Peninsula: what do we know and where should we go?* (2013) **Mountain Research & Development**, 33 (4)
- 10.** O. Grau, J.M. Ninot, H. Cornelissen, T.V. Callaghan. *Similar tree seedling responses to shrubs and simulated environmental changes at Pyrenean and Subarctic treelines* (2013) **Plant Ecology & Diversity**, 6 (3-4): 329-342
- 11.** A. Lluent, A. Anadon-Rosell, J.M. Ninot, O. Grau, E. Carrillo. *Phenology and seed setting success of snowbed plant species in contrasting snowmelt regimes in the Central Pyrenees* (2013) **Flora**, 208: 220-231
- 12.** J.M. Ninot, A. Ferré, O. Grau, X. Font, A. Pérez-Haase, E. Carrillo. *Environmental drivers and plant species richness in the Catalan and Andorran Pyrenees* (2013). **Lazaroa**, 89-105
- 13.** J.M. Ninot, O. Grau, E. Carrillo, R. Guàrdia, A. Lluent, E. Illa. *Trends in seed functional traits of Pyrenean snowbeds* (2012) **Folia Geobotanica**, 48: 23-38
- 14.** O. Grau, J.M. Ninot, A. Ferré, X. Font & J.A. Grytnes. *Altitudinal species richness patterns of vascular plants in the south-eastern Pyrenees and nearby mountains in Catalonia* (2012) **Plant Ecology & Diversity**, 5 (1): 115-126
- 15.** O. Grau, J.M. Ninot, R. Van Logtestijn, H.J.C. Cornelissen, T.V. Callaghan. *Shrub-tree interactions and environmental changes drive treeline dynamics in the Subarctic* (2012) **Oikos**, 121: 1680-1690
- 16.** N.A. Soudzilovskaia, B. Graae, J. Douma, O. Grau, A. Milbau, A. Shevtsova, L. Wolters, J.H.C. Cornelissen. *How do bryophytes govern generative recruitment of vascular plants?* (2011) **New Phytologist**, 190: 1019-1031
- 17.** O. Grau, P. Rautio, J. Heikkinen, K. Saravesi, M.V. Kozlov, A. Markkola. *An ericoid shrub plays a dual role in recruiting both pines and their fungal symbionts along a primary succession gradient* (2010) **Oikos**, 119: 1727-1734
- 18.** O. Grau, J.A. Grytnes, H.J.B. Birks. *A comparison of altitudinal species-richness patterns of bryophytes with other plant groups in Nepal, Central Himalaya* (2007) **Journal of Biogeography**, 34, 1907-1915

## Book chapters

1. J. Peñuelas, J. Sardans, I. Filella, M. Estiarte, J. Llusà, R. Ogaya, J. Carnicer, M. Bartrons, A. Rivas-Ubach, **O. Grau**, G. Peguero, O. Margalef, S. Pla-Rabés, C. Stefanescu, D. Asensio, C. Preece, L. Liu, A. Verger, L. Rico, A. Barbeta, A. Achotegui-Castells, A. Gargallo-Garriga, D. Sperlich, G. Farré-Armengol, M. Fernández-Martínez, D. Liu, C. Zhang, I. Urbina, M. Camino, A. Ubach, M. Popkin, J. Albrand, C. Wheat, D. Nadal, S. Sabaté, C. Gracia, M. Vives, M. Tamayo, J. Terradas (2017). Cap 9: Ecosistemes terrestres. A: El Canvi climàtic a Catalunya: resum executiu del Tercer informe sobre el canvi climàtic a Catalunya. ISBN 9788439395942 (Generalitat de Catalunya). – ISBN 9788499653754 (Institut d'Estudis Catalans). 4 different languages (Catalan, English, French, Spanish)
2. **O. Grau**, J. M. Ninot. Els boscos d'alta muntanya. In: Atlas dels ecosistemes dels Països Catalans (2013) Història Natural des Països Catalans, Enciclopèdia Catalana. Editor: A. Almonacid, P. Comín.
3. J.M. Ninot, E. Batllori, J. Carreras, E. Carrillo, P. Casals, Casas, **O. Grau**, E. Gutiérrez, F. Montané, A. Puente. Reforestación natural en el dominio de *Pinus uncinata* del Parque Nacional de Aigüestortes i Estany de Sant Maurici (2011). In: Ramirez, L.; B. Asensio (eds.). Proyectos de investigación en parques nacionales: 2007-2010
4. J.M. Ninot, **O. Grau**, E. Batllori, J.J. Camarero, E. Carrillo. Winter drought impairs pine regeneration at the Pyrenean treeline (2008) Droughts: Causes, Effects and Predictions. Nova Science Publishers, Inc. NY. Editor: J.M. Sánchez