



Victor Resco

Professor agregat

Dades personals



Categoria: Professor agregat

Àrea de coneixement: Producció vegetal

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Formació Acadèmica

- Enginyer Tècnic Forestal, Universitat de Lleida, 2000
- Enginyer de Forests, Universitat de Lleida, 2003
- Doctorat, Universitat de Wyoming, 2008

Experiència Professional

- 2019 – Professor Agregat, UdL
- 2014 –2019 Professor d'Investigació Ramón y Cajal, UdL
- 2011-2014. Professor lector, Universitat de Sídney Occidental
- 2011. Professor contractat doctor, Universitat de Castella - la Manxa
- 2009-2011. Investigador contractat doctor, Centre d'Investigacions del Foc
- 2008-2009. Investigador postdoctoral, Universitat de Castella la Manxa
- 2004-2008. Investigador en formació, Universitat de Wyoming

Recerca



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-
- Incendis forestals

Interaccions
Biologia

biosfera-atmosfera.
circadiana

Docència

- CANVI GLOBAL Doble Grau en Enginyeria Forestal - Conservació de la Natura
- INCENDIS I SANITAT FORESTAL Grau en Enginyeria Forestal
- TRENDS OF FORESTRY IN A GLOBAL CHANGE CONTEXT Màster Universitari Erasmus Mundus Forestal E
- PRINCIPLES OF WILDLAND FIRE SCIENCE AND MANAGEMENT Màster Universitari Erasmus Mundus Forestal E
- ST IN DISTURBANCE ECOLOGY AND FOREST HEALTH Màster Universitari Erasmus Mundus Spatial a Modelling in European Forestry

Publicacions Recents

Nolan, RH, Hedo J, Arteaga C, Sugai T, Resco de Dios V. 2018. Physiological drought responses improve predictions of live fuel moisture dynamics in a Mediterranean forest. *Agricultural and Forest Meteorology* 263: 417-427, doi: 10.1016/j.agrformet.2019.09.011.

Renchon AA, Griebel A, Metzen D, Williams CA, Medlyn B, Duursma RA, Barton CVM, Maier C, Boer MM, Isaac P, Tissue D, Resco de Dios V, Pendall E. 2018. Upside-down fluxes Down Under: CO₂ net sink in winter and net source in summer in a temperate evergreen broadleaf forest. *Biogeosciences* 15: 3703-3716, doi: 10.5194/bg-15-3703-2018.

Resco de Dios V, Arteaga C, Hedo J, Gil-Pelegrín E, Voltas J. 2018. A trade-off between embolism resistance and bark thickness in conifers: Are drought and fire adaptations antagonistic? *Plant Ecology & Diversity*, doi: 10.1080/17550874.2018.1504238

Dannenmann M, Díaz-Pinés E, Kitzler B, Karhu K., Tejedor J, Ambus P, Parra A, Sánchez L, Resco V, Ramírez D, Povoas-Guimaraes L, Zechmeister-Boltenstern S, Kraus D, Castaldi S, Vallejo A, Rubio A, Moreno JM, Butterbach-Bahl K. 2018. Post-fire nitrogen balance of Mediterranean shrublands: direct combustion losses versus gaseous and leaching losses from the post-fire soil mineral nitrogen flush. *Global Change Biology* 24: 4505-4520, doi: 10.1111/gcb.14388



- Resco de Dios V, Loik M, Smith R, Tissue, D. 2018. Effects of a heat wave on nocturnal stomatal conductance in *Eucalyptus camaldulensis*. *Forests* 9: 319, doi: 10.3390/f9060319
- Aspinwall MJ, Blackman CJ, Resco de Dios V, Busch FA, Rymer PD, Loik ME, Drake JE, Pfautsch S, Smith RA, Tjoeker MG, Tissue DT 2018. Photosynthesis and carbon allocation are both important predictors of genotype productivity responses to elevated CO₂ in *Eucalyptus camaldulensis*. *Tree Physiology* 38: 1286-1301, doi:10.1093/treephys/tpy045.
- Anderegg WRL, Wolf A, Arango-Velez A, Choat B, Chmura DJ, Jansen S, Kolb T, Li S, Meinzer F, Pita P, Resco de Dios V, Sperry JS, Wolfe BT, Pacala S. 2018. Woody plants optimise stomatal behaviour relative to hydraulic risk. *Ecology Letters* 21: 968-977, doi:10.1111/ele.12962.
- Collins L, Boer MM, Resco de Dios V, Power S, Bendall ER, Hasegawa S, Ochoa Hueso R, Piñeiro Nevado J, Bradstock R. 2018. Effects of competition and herbivory over woody seedling growth in a temperate woodland trump the effects of elevated CO₂. *Oecologia* 187: 811-823, doi: 10.1007/s00442-018-4143-1.
- Alday JG, Shestakova TA, Resco de Dios V, Voltas. 2018. DendroSync: An R package to unravel synchrony patterns in tree-ring networks. *Dendrochronologia* 47: 17-22, doi: 10.1016/j.dendro.2017.12.003.
- Collins L, Bradstock R, Resco de Dios V, Duursma R, Velasco S, Boer M. 2018. Understorey productivity in temperate grassy woodland responds to soil water availability but not to elevated CO₂. *Global Change Biology* 24: 2366–2376, doi: 10.1111/gcb.14038.
- Karavani A, Boer MM, Baudena M, Colinas C, Díaz-Sierra R, Pemán J, de Luis M, Enríquez- de-Salamanca A, Resco de Dios V. 2018. Fire-induced deforestation in drought-prone Mediterranean forests: drivers and unknowns from leaves to communities. *Ecological Monographs* 88: 141-169, doi: 10.1002/ecm.1285.
- Resco de Dios V, Gessler, A. 2018. Circadian regulation of photosynthesis and transpiration from genes to ecosystems. *Environmental and Experimental Botany* 152: 37-48, doi: 10.1016/j.envexpbot.2017.09.010.
- Boer MM, Nolan RH, Resco de Dios V, Clarke H, Price OF, and Bradstock RA. 2017 Changing weather extremes call for early warning of potential for catastrophic fire. *Earth's Future* 5: 1196-1202, doi: 10.1002/2017EF000657.
- Resco de Dios V, Molina-Terrén D. 2017. Fires: degree courses for fire professionals. *Nature* 551: 300, doi: 10.1038/d41586-017-06022-4.
- Anderegg WRL, Wolf A, Arango-Velez A, Choat B, Chmura DJ, Jansen S, Kolb T, Li S, Meinzer F, Pita P, Resco de Dios V, Sperry JS, Wolfe BT, Pacala S. 2017. Plant water potential improves prediction of empirical stomatal models. *PLoS one* 12, e0185481, doi: 10.1371/journal.pone.0185481.
- Loik ME, Resco de Dios V, Smith R, Tissue DT. 2017. Relationships between climate of origin and photosynthetic responses to an episodic heatwave depend on growth CO₂ concentration for *Eucalyptus camaldulensis* var. *camaldulensis*. *Functional Plant Biology* 44: 1053-1062, doi: 10.1071/FP17077
- Resco de Dios V. 2017. Circadian regulation and diurnal variation in gas exchange. *Plant Physiology* 175: 3-4, doi: 10.1104/pp.17.00984
- Soler Martin M, Bonet JA, Martínez de Aragón J, Voltas J, Coll L, Resco de Dios V. 2017. Crown bulk density and fuel moisture dynamics in *Pinus pinaster* stands are neither modified by thinning nor captured by the Forest Fire Weather Index. *Annals of Forest Science* 74: 51, doi: 10.1007/s13595-017-0650-1



García-Plazaola JI, Fernández-Marín B, Ferrio JP, Alday JG, Hoch G, Landais D, Milcu A, Tissue DT, Voltas J, Gessler A, Roy J, Resco de Dios V. 2017. Endogenous circadian rhythms in pigment composition induce changes in photochemical efficiency in plant canopies. *Plant, Cell and Environment* 40: 1153-1162, doi: 10.1111/pce.12909

Gessler A, Roy J, Kayler Z, Ferrio JP, Alday JG, Bahn M, del Castillo J, Devidal S, García- Muñoz S, Landais D, Martín-Gómez P, Milcu A, Piel C, Pirhofer-Walzl K, Galiano L, Schaub M, Haeni M, Ravel O, Salekin S, Tissue DT, Tjoelker MG, Voltas J, Hoch G, Resco de Dios V. 2017. Night and day – Circadian regulation of night-time dark respiration and light-enhanced dark respiration in plant leaves and canopies. *Environmental and Experimental Botany* 137, 14-25, doi: 10.1016/j.envexpbot.2017.01.014.

Díaz-Sierra R, Verwijmeren M, Rietkerk M, Resco de Dios V, Baudena M. 2017. A new family of standardized and symmetric indices for measuring the intensity and importance of plant neighbour effects. *Methods in Ecology & Evolution* 8, 580-591, doi: 10.1111/2041- 210X.12706.

Resco de Dios V, Gessler A, Ferrio JP, Alday JG, Bahn M, del Castillo J, Devidal S, García- Muñoz S, Kayler Z, Landais D, Martín-Gómez P, Milcu A, Piel C, Pirhofer-Walzl K, Ravel O, Salekin S, Tissue DT, Tjoelker MG, Voltas J, Roy J. 2017. Circadian rhythms regulate the environmental responses of net CO₂ exchange in bean and cotton canopies. *Agricultural and Forest Meteorology* 239, 185-191.

Shestakova TA, Gutierrez E, Kirilyanov AV, Camarero JJ, Génova M, Knorre A, Linares JC, Resco de Dios V, Sánchez-Salguero R, Voltas J. 2016. Forests synchronize their growth in contrasting Eurasian regions in response to climate warming. *Proceedings of the National Academy of Sciences (PNAS)* 113, 662-667, doi: 10.1073/pnas.1514717113.

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Beringer J, Hutley LB, McHugh I, Arndt SK, Campbell D, Cleugh HA, Cleverly J, Resco de Dios V, et al. 2016. An introduction to the Australian and New Zealand flux tower network – OzFlux. *Biogeosciences* 13, 5895-5916, doi: 10.5194/bg-2016-152

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- Resco de Dios V, Mereed T, Ferrio JP, Tissue DT, Voltas V. 2016. Intra-specific variation in juvenile tree growth under elevated CO₂ alone and with O₃ – A meta-analysis. *Tree Physiology* 36, 682-693, doi: 10.1093/treephys/tpw026.
- Nagy L, Resco de Dios V. 2016. Announcing the Grubb reviews. *Plant Ecology & Diversity* 9, 1, doi: 10.1080/17550874.2016.1175210. - Editorial
- Resco de Dios V. 2016. When fire acts like an irrigation: competition release after burning enhances growth. *Trees - Structure and Function*, 30, 579-580, doi: 10.1007/s00468-016-1382-9. - Editor's highlight.
- Blackman CJ, Aspinwall MJ, Resco de Dios V, Smith R, Tissue DT. 2016. Leaf photosynthetic, economics and hydraulic traits are decoupled among genotypes of a widespread species of eucalypt grown under ambient and elevated CO₂. *Functional Ecology* 30, 1491-1500, doi: 10.1111/1365-2435.12661
- Nolan RH, Resco de Dios V, Boer MM, Caccamo G, Goulden ML, Bradstock RA. 2016. Predicting dead fine fuel moisture at regional scales using vapour pressure deficit from MODIS and gridded weather data. *Remote Sensing of Environment* 174, 100-108, doi: 10.1016/j.rse.2015.12.010
- Resco de Dios V, Loik ME, Smith RA, Aspinwall MJ, Tissue DT. 2016. Genetic variation in circadian regulation of nocturnal stomatal conductance enhances carbon assimilation and growth. *Plant Cell and Environment* 39, 3-11, doi: 10.1111/pce.12598
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- Resco de Dios V, Fellows AW, Nolan RH, Boer MM, Bradstock RA, Domingo F, Goulden ML. 2015. A semi-mechanistic model for predicting the moisture content of fine litter *Agricultural and Forest Meteorology* 203, 64-73, doi: 10.1016/j.agrformet.2015.01.002.
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