

Curriculum Vitae

FERNANDO VALLADARES

• Personal information

Date of Birth: September , 1965; Place of Birth: Buenos Aires, Argentina
Nationality: Spanish; Passport number: BA 158531.

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Fernando Valladares

Research Professor at [CSIC](#), Madrid, Spain
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[Global change ecology](#) [plant ecology and physiology](#)

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|-----------------------|---------------|---------------------|
| Scopus ID: 7003953689 | Researcher ID | K-9406-2014 |
| | Código Orcid | 0000-0002-5374-4682 |

Research Experience

- 2000-Present: Research Professor MNCN-CSIC (Spanish Scientific Council), primary appointment
- 2013-Present: Associate Professor at the University Rey Juan Carlos (URJC), Móstoles, Spain
- 1997-1998: Research Fellow at the Centre of Environmental Sciences (CCMA-CSIC), Madrid, Spain
- 1995-1997: Visiting Research Fellow Smithsonian Institution, USA-Panamá
- 1994-1995: Post-doctoral Research Fellow, University California-Davis, USA
- 1993-1994: Research Fellow at the Autonomous University of Madrid (UAM), Spain

Education

- 1993 PhD Biological Sciences, Universidad Complutense, Madrid, Spain
- 1988 Degree in Biology, Universidad Complutense, Madrid, Spain

Productivity and Outreach

- Complete list of **publications** available from Google Scholar [here](#)

| ¹ PhD thesis | Conference contributions | | Publications | | | Global metrics (16-jan-2020) | | | |
|----------------------------|-----------------------------|---------|--------------|-------|--------------------------|------------------------------|----------------------|---------|-----------|
| | Total | Invited | Chair | Total | ISI-indexed ² | Q1 ³ | Source | h-index | Citations |
| 19 | 226 | 34 | 345 | 285 | 172 | 475 | ISI-WoK ¹ | 58 | 16,354 |
| | | | | | | | Google Scholar | 85 | 31,720 |

¹Number supervised; ²Publications indexed by the ISI Web of Knowledge; ³Publications within the first quartile in the field

- International scientific track **Scopus ID: 7003953689; Researcher ID K-9406-2014; Orcid 0000-0002-5374-4682**
- Member of the editorial committee of four ISI-indexed journals (more than 10 years in *Oecologia*, *Tree Physiology*, and *Restoration Ecology*)

Leading and Participation in Research Projects (selected for the last five years only)

- 2016-2019 [SPONFOREST](#) ERA-NET, BIOIDIVERSA EU. PI: A. Hampe (1,190,453 €)
- 2016-2019. *Impacts of woodland densification on hydrology of Mediterranean landscapes* NERC-UK. PI: D. A. Coomes (95k €)
- 2015-2018. [GenTree](#), EU H2020, PI: B. Fady (1.4M €, 324k € allocated to CSIC)
- 2014-2017 [VERONICA](#), Spanish Ministry of Economy and Innovation. PI: F. Valladares (141k €)
- 2010-2014. [FUNDIV](#), EU Cordis FP7. PI: M. Scherer-Lorenzen (2.5M €, 232k € allocated to CSIC)
- 2010-2013 *Vulnerabilidad de poblaciones de plantas leñosas mediterráneas al cambio global* (VULGLO) Spanish Ministry of Science, PI: F. Valladares (110k €)
- 2009-2013. [MONTES](#), Spanish Ministry of Science, PI: J. Retana (4.5M €, 159k allocated to CSIC)
- 2009-2012. [BACCARA](#) EU Cordis FP7. PI: H. Jactel (3.5M €, 440k € allocated to CSIC)

Mentoring and Teaching

- Supervisor of twelve post-doctoral researchers
- Scientific host and mentor of six international research fellows
- PhD students supervised: 19, all awarded the maximum qualification, 11 with Extraordinary distinction
- Professor at three MSc. and two BSc. programs at Universities URJC (Madrid), UPO (Seville) and U. Alcalá (Madrid)

Advisory and Evaluation Activity

- Reviewer of 70 ISI-Index journals in the areas of Global Change, Plant Science and Ecology
- International scientific evaluator of research projects for the Spanish Research Agency and for the Ministry of Science and Innovation, the German Research foundation (DFG), the Australian Research Council (ARC), the National University of Comahue (Argentina), scientific member of the Council of Canadian Academies, the French National Agency for Research (ANR) and the King Abdulaziz University (Saudi Arabia), the Ikerbasque Foundation (Basque Country, Spain)

- National scientific evaluator for research projects and fellowships for the Ikerbasque foundation, Agència de Gestió d'Ajuts Universitaris i de Recerca, the National Agency for Evaluation and Prospects (ANEP) and the BBVA foundation for Biodiversity Conservation
- Member of 5 international scientific societies, President of Spanish Ecological Society (2004-2015)

Awards, distinctions and special positions

- PhD: extraordinary distinction of the UCM (Spain) and Mason E. Hale International award (Canada)
- 2010 Highly cited author 2007-2010 Award by *Forest Ecology and Management*
- 2016 Highly cited author 2015 Award by ISI Thomson Reuter Institute
- 2006 – 2013 President of the Spanish Association of Terrestrial Ecology (www.aeet.org)
- 2019 – Present. Vicepresident of the Iberian Ecological Society (www.sibecol.org)
- 2020 Award for Scientific Communication by the Spanish Association of Environmental Journalists (APIA)
- 2020 Distinction “Ecosistemas Luis Balaguer” by the Spanish Association of Terrestrial Ecology (AEET)
- 2020 Climate Leaders Awards, category Research and Education Climate Reality Project – Spain. www.climateawards.eu

Main research topics

- Climate change impacts on terrestrial ecosystems
- Biodiversity and Forest ecology
- Phenotypic plasticity vs phenotypic stability in changing environments
- Plant physiological and evolutionary ecology in a global change scenario

SELECTED PUBLICATIONS (from more than 450 articles, books, and book chapters)

Full list and reprints at www.valladares.info

- Valladares, F. & Pearcy, R.W. 1997. Interactions between water stress, sun-shade acclimation, heat tolerance and photoinhibition in the sclerophyll *Heteromeles arbutifolia*. *Plant, Cell and Environment* 20: 25-36.
- Valladares, F., S. J. Wright, E. Lasso, K. Kitajima And R. W. Pearcy. 2000. Plastic phenotypic response to light of 16 congeneric shrubs from a Panamanian rainforest. *Ecology* 81 1925-1936.
- Valladares, F., Gianoli, E. & Gómez, J.M. 2007. Ecological limits to plant phenotypic plasticity. *Tansley Review. New Phytologist* 176: 749-763.
- Valladares, F. & Niinemets, Ü. 2008. Shade tolerance, a key plant trait of complex nature and consequences. *Annual Review of Ecology, Systematics and Evolution* 39: 237-257.
- Valladares, F. 2008. A mechanistic view of the capacity of forest to cope with climate change. En: F. Bravo, V. Le May, R. Jandl, Klaus von Gadow (Eds.), *Managing Forest Ecosystems: the challenge of climate change*. Springer Verlag, Berlin.
- Araújo, M.B., Ferri-Yáñez, F., Bozinovic, F., Marquet, P.A., Valladares, F. & Chown, S.L. 2013. Heat freezes niche evolution. *Ecology Letters*. 16: 1206–1219. DOI: 10.1111/ele.12155
- Valladares, F. S. Matesanz, F. Guilhaumon, M. B. Araújo, L. Balaguer, M. Benito-Garzón, W. Cornwell, E. Gianoli, M. Van Kleunen, D. E. Naya, A. B. Nicotra, H. Poorter, & M. A. Zavala. 2014. The effects of phenotypic plasticity and local adaptation on forecasts of species range shifts under climate change. *Ecology Letters* 17: 1351-1364 doi: 10.1111/ele.12348
- Valladares, F., C. C. Bastias, O. Godoy, E. Granda, And A. Escudero. 2015. Species coexistence in a changing world. *Frontiers in Plant Science* 6:866. doi: 10.3389/fpls.2015.00866.
- Liang, J., Crowther, T. W., Picard, N., Wiser, S., Zhou, M., Alberti, G., ..., Valladares, F. & de Miguel, S. 2016. Positive biodiversity-productivity relationship predominant in global forests. *Science*, 354: aaf8957.
- van der Plas, F., Manning, P., Allan, E., Scherer-Lorenzen, M., Verheyen, K., Wirth, C., ..., Valladares, F. ..., & Barbaro, L. 2016. Jack-of-all-trades effects drive biodiversity-ecosystem multifunctionality relationships in European forests. *Nature communications*, 7. 230. 220.
- Ratcliffe, S, C Wirth, T Jucker, F Der Plas, M Scherer-Lorenzen, F. Valladares. 2017. Biodiversity and ecosystem functioning relations in European forests depend on environmental context. *Ecology Letters* 20 (11), 1414-1426
- Bowler, De, C Hof, P Haase, I Kröncke, O Schweiger, R Adrian, L Baert, F. Valladares. 2017. Cross-realm assessment of climate change impacts on species' abundance trends. *Nature Ecology & Evolution* 1, 0067
- Plas, F. , Ratcliffe, S. , Ruiz-Benito, P. , Scherer-Lorenzen, M. , Verheyen, K. , Wirth, C. , ... Valladares, F. , ... Allan, E. 2018. Continental mapping of forest ecosystem functions reveals a high but unrealised potential for forest multifunctionality. *Ecology Letters* 21: 31-42. doi: <http://doi.org/10.1111/ele.12868>
- Valladares, F.; Magro, S.; Martin-Fores, I. 2019. Anthropocene, the challenge for Homo sapiens to set its own limits. *Geographical Research Letters* 45: 33-59. DOI <http://doi.org/10.18172/cig.3681>
- Steidinger, B. S.; Crowther, T. W.; Liang, J.; Valladares, F Et Al., GFB Consortium. 2019. Climatic controls of decomposition drive the global biogeography of forest-tree symbioses. *Nature* 569: 404; 571 (7765): E8-E8 JUL 18 2019. DOI <https://doi.org/10.1038/s41586-019-1128-0>
- Cabal, C. R Martínez-García, A de Castro Aguilar, F Valladares, 2020. The exploitative segregation of plant roots. *Science* 370 (6521), 1197-1199. <https://doi.org/10.1126/science.aba9877>