

CV Date	25/03/2025
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## Part A. PERSONAL INFORMATION

First Name	David		
Family Name	Badía Villas		
Sex	██████	Date of Birth	██████
ID number Social Security, Passport	██████████		
URL Web	fuegosol.weebly.com		
Email Address	badia@unizar.es		
Open Researcher and Contributor ID (ORCID)	0000-0002-1006-5030		

### A.1. Current position

Job Title	Catedrático de Universidad		
Starting date	2017		
Institution	Universidad de Zaragoza		
Department / Centre	Ciencias Agrarias y del Medio Natural / Escuela Politécnica Superior de Huesca		
Country		Phone Number	
Keywords	Soil analysis; Soil chemistry; Soil type		

## Part B. CV SUMMARY

### Leadership:

Current Vice-President of the International Union of Soil Sciences (IUSS): 4th Commission.

Current President (from 2021) of the Aragon Delegation of the Spanish Society of Soil Science (SECS).

Treasurer & member (2013-2020) of the Directors Board of the Spanish Society of Soil Science (SECS).

Current Co-leader of the Research Group "Geoforest" (Government of Aragon), member IUCA.

Current Director the Area of Applied Sciences and Technology (Diputación de Huesca).

### Academic information:

Professor in the University of Zaragoza, since 1992 (Associate, TEU, TU) and since 2017 (as CU).

Supervisor of a 95 academic works: Doctoral Thesis, Master's Degree, Degree and Diploma Final Projects.

### Research projects:

He has led national and international research projects (57) as well as contracts with companies (27)

### Publications:

115 research articles, 34 books & 158 communications to Congresses

Q1 research articles (2020-2024): 23 papers

h-index (year 2024): 26

Current member of the board of directors of Journals (Pirineos, Bulletin of the National Research Centre).

5 six-year term ("sexenios") of research until 2024 (CNEAI).

### Teaching/Training:

Since the 1991/92 academic year, in two Degrees (Agronomists and Environmental Sciences) at the EPS-University of Zaragoza.

Supervisor of 6 Doctoral Thesis and 89 Master's Degree, Degree and Diploma Final Projects.

Dissemination:

Author of two didactic applications on Soil Science, freely available online:

1) <http://www.cienciadelsuelo.es/> (Spanish and English versions) App Edafos.

2) <http://www.suelosdearagon.com/>

As well as the web FUEGOSOL (<http://fuegosol.weebly.com>) with our research results on prescribed fires

Events Coordinator

Coordinator of the 27th National Meeting (RENS'09) of the Spanish Society of Soil Science (SECS)

Coordinator of several summer courses in the Universidad de Verano de Teruel.

Coordinator of the last 15th editions of the Technical Workshop on Soil Conservation and Rehabilitation (Diputación de Huesca)

Coordinator of Workshops on soils in the Universidad Internacional Menéndez y Pelayo (UIMP)

## Part C. RELEVANT ACCOMPLISHMENTS

### C.1. Most important publications in national or international peer-reviewed journals, books and conferences

AC: corresponding author. (n° x / n° y): position / total authors. If applicable, indicate the number of citations

- 1 **Scientific paper**. 2025. Comparison of the effects on soil of brush removal by clearing or burning (2-years after application) in southern Pyrenees. SJSS. 15-13749.
- 2 **Scientific paper**. Andoni Alfaro Leranoz; David Badía Villas; Clara Martí Dalmau; Marta Escuer Arregui; Silvia Quintana Esteras. 2024. The Effects of Fire Intensity on the Biochemical Properties of a Soil Under Scrub in the Pyrenean Subalpine Stage. FIRE. MDPI. 7-452.
- 3 **Scientific paper**. Andoni Alfaro; David Badía; Clara Martí; Mohamed Emran; Ana Paula Conte; Oriol Ortíz. 2023. Long-term evolution of shrub prescribed burning effects on topsoil organic matter and biological activity in the Central Pyrenees (NE-Spain). Science of the Total Environment. 888-163994.
- 4 **Scientific paper**. Janielle Pereira; David Badía-Villas; Clara Martí-Dalmau; Juan Luis Mora; Vanessa Donzeli. 2023. Fire effects on biochemical properties of a semiarid pine forest topsoil at cm-scale. Pedobiologia. Elsevier. 96-150860, pp.1-9.
- 5 **Scientific paper**. Juan Luis Mora; David Badía-Villas; Daniel Gómez. 2022. Fire does not transform shrublands of *Echinopartum horridum* (Vahl) Rothm. into grasslands in the Pyrenees: Development of community structure and nutritive value after single prescribed burns. Journal of Environmental Management. 315-115125.
- 6 **Scientific paper**. Mora, JL; Girona, A.; Martí, C.; Ortíz, O.; Armas, C.; Badía, D.2021. Changes in pools of organic matter and major elements in the soil following prescribed pastoral burning in the central Pyrenees. Geoderma. 402-115169.
- 7 **Scientific paper**. Mora, JL; Molina, M.; Girona, A.; Martí, C.; Badía, D.2021. Factor controlling the buildup of humus and particle organic matter in European beech and Scots pine stands at their southernmost distribution limits (Moncayo Massif, Spain). Geoderma. 401-115211.
- 8 **Scientific paper**. D. Badía; J. Esteban; A. Girona; O. Ortiz; R. M. Poch. 2020. Topsoil microstructure changes after a shrubland prescribed burn (Central Pyrenees, NE Spain). Science of the Total Environment. Elsevier. 7428, pp.141253.

- 9 **Scientific paper.** David Badía Villas; Lucía Buendía García; Luis Alberto Longares Aladrén; Clara Martí Dalmau; José Luis Peña Monné; José Antonio González Pérez. 2020. Soil-geomorphology relationships determine the distribution of the main subalpine grasslands in the Central Pyrenees (NE-Spain). Science of the Total Environment. 734.
- 10 **Scientific paper.** Cecilia Armas Herrera; David Badía Villas; Juan Luis Mora; Daniel Gómez. 2020. Plant-topsoil relationships underlying subalpine grassland patchiness. Science of the Total Environment. 712.

### C.3. Research projects and contracts

- 1 **Project.** Implementación de un plan de adaptación y mitigación frente a los efectos del cambio climático sobre los sistemas pastorales de montaña. POCTEFA. Pilar Santolaria. (Universidad de Zaragoza). 01/03/2024-28/02/2027. 388.944 €.
- 2 **Project.** Handling the Encroachment of Degraded Grasslands in Europe (OVER the HEDGE). (University of Turin). 01/01/2023-31/12/2023. 11.300 €.
- 3 **Project.** Optimización del uso de quemas prescritas para la reducción del riesgo de incendios y la recuperación de pastos de alta biodiversidad en el pirineo central: Fuegooptimo. (Universidad de Zaragoza). 01/10/2020-30/09/2021. 1.500 €.
- 4 **Project.** Identificación de los factores edáficos condicionantes de la distribución de pastos en el Pirineo Central. Instituto de Estudios Altoaragoneses. (Universidad de Zaragoza). 01/01/2018-31/12/2018. 3.600 €.
- 5 **Project.** ¿Podemos controlar el erizón mediante quemas?. Instituto de Estudios Altoaragoneses. (Universidad de Zaragoza). 01/01/2017-31/12/2017. 3.600 €.
- 6 **Contract.** Diagnóstico de la fertilidad del suelo: Taller formativo Desarrollo Agrícola y Minero, S.A.. David Badía Villas. 19/12/2024-20/12/2024. 2.000 €.
- 7 **Contract.** Elaboración de un Informe sobre el estado del arte de los Suelos Pirenaicos Consorcio de la Comunidad de Trabajo de los Pirineos. David Badía Villas. 15/09/2024-14/01/2025. 5.000 €.
- 8 **Contract.** Muestreo y caracterización morfológica de perfiles en diferentes geoformas en Biscarrués Ayuntamiento de Biscarrués. David Badía Villas. 14/09/2024-13/01/2025. 1.500 €.
- 9 **Contract.** Caracterización territorial de nuevos municipios para su inclusión en la DOP Somontano. Consejo Regulador de DOP Somontano. David Badía Villas. 01/03/2024-01/06/2024. 4.840 €.
- 10 **Contract.** Evaluación de suelos en los viñedos de Alpartir, Zaragoza Bodegas Frontonio. Luis Alberto Longares. 01/03/2023-01/03/2024. 6.500 €.