

Date of the CVA	07/10/2019
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Section A. PERSONAL DATA

Name and Surname	Francesc Gallart Gallego		
DNI/NIE/Passport		Age	
Researcher's identification number	Researcher ID	L-9177-2013	
	Scopus Author ID	7003690680	
	ORCID	0000-0002-7050-2204	

A.1. Current professional situation

Institution	Consejo Superior de Investigaciones Científicas		
Dpt. / Centre	Geociencias / INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA		
Address			
Phone	Email	francesc.gallart@idaea.csic.es	
Professional category	Profesor de Investigación de OPIs	Start date	2010
UNESCO spec. code	250800 - Hydrology		
Keywords	Hydrology; Geomorphology		

A.2. Academic education (Degrees, institutions, dates)

Bachelor/Master/PhD	University	Year
Doctor en Ciencias Geológicas	Universitat de Barcelona	1980
Licenciado en Ciencias Geológicas	Universitat de Barcelona	1974

A.3. General quality indicators of scientific production

Number of recognised six-year periods of research: 5
 Date of the last recognised period: 019/06/2017
 Number of supervised Ph. Dr. thesis (2007 to 2018): 3
 Total number of citations: 2724 (WoS)
 Average number of citations per year (2014 to 2018): 216 (WoS)
 Number of publications Q1: 64
 h-index: 33 (WoS)
 Number of co-authors: >150 (Scopus)

Section B. SUMMARY OF THE CURRICULUM

Main Scientific subjects:

- Hydrological and erosion processes in semi-natural Mediterranean mountain environments. Organiser of the establishment of the Vallcebre Research Catchments in the Catalan Pyrenees, a continued frontrunner facility in the research on these processes in Spain. Principal researcher of several projects on these subjects involving diverse research teams in Spain.
- Hydrological role of vegetation at the operational river basin scale. Co-author of several research papers, divulger of the updated scientific findings on this field in numerous lectures, graduated classes, and divulgation articles. Advisor on these subjects for several River Basin Authorities in Spain and the European Forest Institute.
- Analysis of the uncertainty associated with measurements and simulations of hydrological processes. Applications to rainfall erosivity, rainfall-runoff modelling, sediment yield from catchments, sediment fingerprinting, water transit time modelling.

Section C. MOST RELEVANT MERITS (ordered by typology)

C.1. Publications

- 1 **Scientific paper.** Molina, A.J.; et al. 2019. Contributions of throughfall, forest and soil characteristics to near-surface soil water-content variability at the plot scale in a mountainous Mediterranean area *Science of the Total Environment*. 647, pp.1421-1432.
- 2 **Scientific paper.** Moreno-de-las-Heras, M.; et al. 2019. Hydro-geomorphological consequences of the abandonment of agricultural terraces in the Mediterranean region: Key controlling factors and landscape stability patterns *Geomorphology*. 333, pp.73-91.
- 3 **Scientific paper.** Sprenger, M.; et al. 2019. Mechanisms of consistently disjunct soil water pools over (pore) space and time *Hydrology and Earth System Sciences*. 23-6, pp.2751-2762.
- 4 **Scientific paper.** Peña-Angulo, D.; et al. 2019. Spatial variability of the relationships of runoff and sediment yield with weather types throughout the Mediterranean basin *Journal of Hydrology*. 571, pp.390-405.
- 5 **Scientific paper.** Moreno-de las Heras, M.; et al. 2018. Testing the Use of ²¹⁰Pb to Study Sediment Connectivity in a Mediterranean Mountain Basin with Badlands *Land Degradation and Development*. 29-3, pp.676-689.
- 6 **Scientific paper.** Llorens, P.; et al. 2018. What have we learnt about mediterranean catchment hydrology? 30 years observing hydrological processes in the vallcebre research catchments [¿qué hemos aprendido sobre la hidrología de cuencas mediterráneas? 30 años observando los procesos hidrológicos en las cuencas de investigación de vallcebre] *Geographical Research Letters*. 44-2, pp.475-502.
- 7 **Scientific paper.** Rogger, M.; et al. 2017. Land use change impacts on floods at the catchment scale: Challenges and opportunities for future research *WATER RESOURCES RESEARCH*. 53. ISSN 0043-1397.
- 8 **Scientific paper.** Gallart, Francesc; et al. 2017. TREHS: An open-access software tool for investigating and evaluating temporary river regimes as a first step for their ecological status assessment *SCIENCE OF THE TOTAL ENVIRONMENT*. 607. ISSN 0048-9697.
- 9 **Scientific paper.** Gallart F; et al. 2016. A GLUE-based uncertainty assessment framework for tritium-inferred transit time estimations under baseflow conditions *Hydrological Processes*. Wiley Online Library. 30-25, pp.4741-4760.
- 10 **Scientific paper.** Braud, I.; et al. 2016. Flash floods, hydro-geomorphic response and risk management *Journal of Hydrology*. 541, pp.1-5.
- 11 **Scientific paper.** Ruiz-Páez, G.; et al. 2016. Investigating the behaviour of a small Mediterranean catchment using three different hydrological models as hypotheses *Hydrological Processes*. 30-13, pp.2050-2062.
- 12 **Scientific paper.** Moreno-de las Heras, M.; Gallart, F. 2016. Lithology controls the regional distribution and morphological diversity of montane Mediterranean badlands in the upper Llobregat basin (eastern Pyrenees) *Geomorphology*. 273, pp.107-115.
- 13 **Scientific paper.** Gallart, F.; et al. 2016. Validating alternative methodologies to estimate the regime of temporary rivers when flow data are unavailable *Science of the Total Environment*. 565, pp.1001-1010.

C.2. Participation in R&D and Innovation projects

- 1 Estat ecològic dels rius temporals: mètodes d'avaluació de les basses desconnectades TRivers-P Agència Catalana del Agua. Núria Bonada. (INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA). 01/11/2019-30/10/2021. 228.128 €.
- 2 TRANSHYMED: Patrones espacio-temporales de transferencia de agua en cuencas mediterráneas de cabecera. Conexiones entre vegetación y respuesta hidrológica. AGENCIA ESTATAL DE INVESTIGACIÓN. (INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA). 01/01/2017-31/12/2019. 100.000 €.
- 3 MASCC: Mediterranean Agricultural Soils Conservation under global Change (ERA-Net ARIMNET 2) Instituto Nacional de Investigación y Tecnología Agraria y Alimentaria. Damien Raclot. (INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA). 01/09/2016-31/08/2019. 30.000 €.

- 4 LIFE TRIVERS. Implementing the Water Framework Directive to temporary rivers: tools for the assessment of their ecological status. LIFE13 ENV/ES/000341 European Commission. Prat, N.(INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA). 02/06/2014-01/06/2018. 1.407.943 €.
- 5 EcoHyMed: Ecohidrología de cuencas mediterráneas de cabecera. Conexiones entre vegetación y respuesta hidrológica en un contexto de cambio global (INSTITUTO DE DIAGNOSTICO AMBIENTAL Y ESTUDIOS DEL AGUA). 01/01/2014-31/12/2016. 101.000 €.

C.3. Participation in R&D and Innovation contracts

RESEL: Red de Cuencas y Parcelas Experimentales de Seguimiento y Evaluación de la Erosión y Desertificación. Acuerdo de Encomienda de Gestión. Dirección General del Medio Natural y Política Forestal. Francesc Gallart. (Consejo Superior de Investigaciones Científicas). 01/01/2010-01/01/2012. 421.772 €.

C.4. Patents