

Name

Artemi Cerdà

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Availability Period

All year raound

Contact

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The type of research we offer is a field and laboratory approach to measure the transport of sediments and water in Mediterranean type ecosystems under agriculture and forest land use, with special attention to the development of sustainable management. We are measuring how mulches, geotextiles, catch crops... control the soil erosion rate and the runoff generation in Mediterranean orchards. We pay special attention to the role of the fire in rangeland terrain. Rainfall simulators, erosion plots, water repellency measurements, ring and minidisk infiltrometers, and soil sampling (organic matter and aggregate stability) are some of the techniques you will learn with us.

Cerdà, A. y Doerr, S.H. 2008. The effect of ash and needle cover on surface runoff and erosion in the immediate post-fire period.

Catena, 74 , 256- 263. doi:10.1016/S0341-8162(02)00027-9

Cerdà, A. & Jurgensen, M.F. 2011 Ant mounds as a source of sediment on citrus orchard plantations in eastern Spain. A three-scale rainfall simulation approach Catena 85, 231-236 doi 10.1111/j.1439-0418.2008.01267.x

Cerdà, A., Giménez-Morera, A. and Bodí, M.B. Soil and water losses from new citrus orchards growing on sloped soils in the western Mediterranean basin. Earth Surface Processes and Landforms, 34, 1822-1830. 2009. DOI: 10.1002/esp.1889 x

Bodí, M.B. Doerr, S.H., Cerdà, A. and Mataix-Solera, J. 2012. Hydrological effects of a layer of vegetation ash on underlying wettable and water repellent soils. Geoderma, 191, 14-23. <http://dx.doi.org/10.1016/j.geoderma.2012.01.006>

Possible duration of the STSM

We suggest 1 week to 1 month

The best time to host STSM in this institution

All year around