

## ***Interactive comment on “Effects of topsoil treatments on afforestation in a dry-Mediterranean climate (southern Spain)” by P. Hueso-González et al.***

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Dear author, I found your paper very interesting to understand the restoration and rehabilitation strategies in the Mediterranean. We found in many study sites a positive change when using straw, but probably this is due to the fact that we were working on very degraded agriculture soils.... and you are working on forest soils. Your research probably show that the forest soils are not so degraded as we use to think. See here some publications that show this positive use of straw: Tejada, M., Benítez, C. Effects of crushed maize straw residues on soil biological properties. (2014) *Land Degradation and Development*, 25 (5), pp. 501-509.. DOI: <http://dx.doi.org/10.1002/ldr.2316>  
Cerdà, A., González-Pelayo, O., Giménez-Morera, A., Jordán, A., Pereira, P., Novara,

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Discussion paper



A., Brevik, E.C., Prosdocimi, M., Mahmoodabadi, M., Keesstra, S., García Orenes, F., Ritsema, C., 2016. The use of barley straw residues to avoid high erosion and runoff rates on persimmon plantations in Eastern Spain under low frequency – high magnitude simulated rainfall events. *Soil Res*, 54, 2, 154-165 DOI: 10.1071/SR15092

Prosdocimi, M., Jordán, A., Tarolli, P., Keesstra, S., Novara, A., Cerdà, A. 2016a. The immediate effectiveness of barley straw mulch in reducing soil erodibility and surface runoff generation in Mediterranean vineyards. *Science of the Total Environment*, 547, pp. 323-330. DOI: 10.1016/j.scitotenv.2015.12.076

Other amendments show a positive response of the soil system in many ecosystems, this is why your paper is bringing to us some relevant knowledge that must make that we will rethink our research

Sadeghi S. H. R., Gholami L., Homaei M., Khaledi Darvishan A. Reducing sediment concentration and soil loss using organic and inorganic amendments at plot scale. (2015) *Solid Earth*, 6 (2), pp. 445-455. DOI: 10.5194/se-6-445-2015

Hu Y. -L., Niu Z. -X., Zeng D. -H., Wang C. -Y. Soil Amendment Improves Tree Growth and Soil Carbon and Nitrogen Pools in Mongolian Pine Plantations on Post-Mining Land in Northeast China. (2015) *Land Degradation and Development*, 26 (8), pp. 807-812. DOI: 10.1002/ldr.2386

Yazdanpanah, N., Mahmoodabadi, M., Cerdà, A. 2016. The impact of organic amendments on soil hydrology, structure and microbial respiration in semiarid lands *Geoderma*, 266, pp. 58-65. DOI: 10.1016/j.geoderma.2015.11.032

your findings will make many of us to revisit our data and publications

Montiel-Rozas, M.M., Panettieri, M., Madejón, P., Madejón, E. Carbon Sequestration in Restored Soils by Applying Organic Amendments (2015) *Land Degradation and Development*, . DOI: 10.1002/ldr.2466

Wang, H.-Q., Zhao, Q., Zeng, D.-H., Hu, Y.-L., Yu, Z.-Y. Remediation of a Magnesium-Contaminated Soil by Chemical Amendments and Leaching (2015) *Land Degradation and Development*, 26 (6), pp. 613-619. DOI: 10.1002/ldr.2362

I wish the paper will be publish as this is a great contribution to science Sincerely  
Artemi Cerdà

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Interactive comment on Solid Earth Discuss., doi:10.5194/se-2016-98, 2016.

**SED**

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