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## ***Interactive comment on “Reducing sediment concentration and soil loss using organic and inorganic amendments at plot scale” by S. H. R. Sadeghi et al.***

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Dear author, Your paper was found to be acceptable for publications but I suggest that you will improve the following. You must show the reader that there is a serious problem due to the soil erosion and the land degradation in the world that affect mainly the agriculture land Please highlight that your research on mulch can help the forest and agriculture management to be more sustainable See below some citation that can help you Cerdà, A., Flanagan, D.C., le Bissonnais, Y., Boardman, J. 2009. Soil Erosion and Agriculture. Soil and Tillage Research, 107-108. doi:10.1016/j.still.2009.10.006 Cerdà, A., Giménez-Morera, A., Bodí, M.B. 2009. Soil and water losses from new

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citrus orchards growing on sloped soils in the western Mediterranean basin. *Earth Surface Processes and Landforms*, 34, 1822-1830. DOI: 10.1002/esp.1889 Ziadat, F. M., Taimeh, A. Y. 2013. Effect of rainfall intensity, slope and land use and antecedent soil moisture on soil erosion in an arid environment. *Land Degradation & Development*, 24: 582- 590. DOI 10.1002/ldr.2239 Leh, M., Bajwa, S., Chaubey, I. 2013. Impact of land use change on erosion risk: and integrated remote sensing geographic information system and modeling methodology. *Land Degradation & Development*, 24: 409-421. DOI 10.1002/ldr.1137

Zhao, G., Mu, X., Wen, Z., Wang, F., Gao, P. 2013. Soil erosion, conservation, and Eco-environment changes in the Loess Plateau of China. *Land Degradation & Development*, 24: 499- 510. DOI 10.1002/ldr.2246

Mandal, D., Sharda, V. N. 2013. Appraisal of soil erosion risk in the Eastern Himalayan region of India for soil conservation planning. *Land Degradation & Development*, 24: 430-437. DOI 10.1002/ldr.1139 Xu, Q. X., Wang, T. W., CAI, C. F., Li, Z.X., SHI, Z. H. 2012. Effects of soil conservation on soil properties of citrus orchards in the Three-Gorges Area, China. *Land Degradation & Development*, 23: 34 -42. DOI 10.1002/ldr.1045

You must highlight the importance of the multidisciplinary view of the soil as key part of the Earth System Use this idea in the introduction Brevik, Å. E., Cerdà, A., Mataix-Solera, J., Pereg, L., Quinton, J. N., Six, J., and Van Oost, K.: The interdisciplinary nature of SOIL, *SOIL*, 1, 117-129, doi:10.5194/soil-1-117-2015, 2015.

Also highlight the importance and accuracy of your rainfall simulation approach Moreno-Ramón, A. H., Quizembe, S. J., and Ibáñez-Asensio, S.: Coffee husk mulch on soil erosion and runoff: experiences under rainfall simulation experiment, *Solid Earth*, 5, 851-862, doi:10.5194/se-5-851-2014, 2014. Gabarrón-Galeote, M. A., Martínez-Murillo, J. F., Quesada, M. A., and Ruiz-Sinoga, J. D.: Seasonal changes in

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the soil hydrological and erosive response depending on aspect, vegetation type and soil water repellency in different Mediterranean micro environments, *Solid Earth*, 4, 497-509, doi:10.5194/se-4-497-2013, 2013. Cerdà, A. 1998. Effect of climate on surface flow along a climatological gradient in Israel. A field rainfall simulation approach. *Journal of Arid Environments*, 38, 145-159.

Sadeghi, S. H. R., Gholami, L., Sharifi, E., Khaledi Darvishan, A., and Homaei, M.: Scale effect on runoff and soil loss control using rice straw mulch under laboratory conditions, *Solid Earth*, 6, 1-8, doi:10.5194/se-6-1-2015, 2015.

I fully support the publication of this paper Sincerely Artemi Cerdà

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Interactive comment on *Solid Earth Discuss.*, 7, 63, 2015.

**SED**

7, C219–C221, 2015

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