

Curriculum vitae

PERSONAL INFORMATION **SIMONE DI PRIMA**

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🔗 https://scholar.google.it/citations?user=gIYn_o4AAAAJ&hl=it <http://orcid.org/0000-0002-5066-3430> https://www.researchgate.net/profile/Simone_Di_Prima <https://www.scopus.com/authid/detail.uri?authorId=37080439500>

🗣️ SIMONE DI PRIMA

Sex Male | Date of birth 1984 | Nationality Italian

EDUCATION AND TRAINING

28 Mar 2017–28 Mar 2023 **Italian Professorship Qualification**
National scientific qualification (abilitazione scientifica nazionale) to function as associate professor (II fascia). Competition sector: Agricultural, forest and biosystems engineering. CODE: 07/C1.

1 Jan 2013–7 Mar 2016 **Doctorate of Philosophy** EQF level 8
Department of Agricultural and Forest Sciences, University of Palermo, Palermo (Italy)
Ph.D. course in "Sistemi Agro-Ambientali" curriculum "Idronomia Ambientale".
Dissertation: Improvement of BEST (Beerkan Estimation of Soil Transfer parameters) method for soil hydraulic characterization

1 Sep 2009–19 Jul 2011 **Master's Degree in Forestry and Environmental Sciences** EQF level 7
Department of Agricultural and Forest Sciences, University of Palermo, Palermo (Italy)

Sep 2003–20 May 2009 **Bachelor's degree in Forestry and Environmental Sciences** EQF level 6
Department of Agricultural and Forest Sciences, University of Palermo, Palermo (Italy)

RESEARCH EXPERIENCE

Scopus author profile

h-index: 12; documents by author: 28; Total citations: 309.

<https://www.scopus.com/authid/detail.uri?authorId=37080439500>

Research works

Articles on peer-reviewed journals: 33; Number of conference proceedings: 35; Number of invited lectures in international scientific conferences: 1

1 Sep 2018–ongoing **Post-doctoral Fellow**
Université de Lyon; UMR5023 Ecologie des Hydrosystèmes Naturels et Anthropisés (LEHNA); CNRS; ENTPE; Université Lyon 1; 3 rue Maurice Audin, 69518 Vaulx-en-Velin, France.
Project: INFILTRON Project (ANR-17-CE04-0010) funded by the French National Research Agency (ANR).
Research output:
▪ Di Prima, S., Castellini, M., Abou Najm, M.R., Stewart, R.D., Angulo Jaramillo, R., Winarski, T., Lassabatere, L., 2019. Experimental Assessment of a New Comprehensive Model for Single Ring

Infiltration Data. Submitted to Journal of Hydrology.

- Lassabatere, L., Di Prima, S., Angulo-Jaramillo, R., Keesstra, S., Cerda, A., in press. Beerkan multi-runs for characterising water infiltration and soil hydraulic properties spatial variability at transect and field scales. *Hydrological Sciences Journal*.
- Lassabatere, L., Di Prima, S., Bouarafa, S., Iovino, M., Bagarello, V., Angulo Jaramillo, R., in press. BEST-DP for characterizing dual-permeability unsaturated soils with ponded and tension infiltrometers. *Vadose Zone Journal*.

1 Sep 2016–31 Aug 2018

Post-doctoral Fellow

Agricultural Department, University of Sassari, Sassari (Italy)

Project: Hydraulic properties of soils at different spatial scales in the Baratz Lake Catchment (Sardinia, Italy).

Research output:

- Di Prima, S., Marrosu, R., Lassabatere, L., Angulo-Jaramillo, R., Pirastru, M., 2018. In situ characterization of preferential flow by combining plot- and point-scale infiltration experiments on a hillslope. *Journal of Hydrology* 563, 633–642. <https://doi.org/10.1016/j.jhydrol.2018.06.033>
- Di Prima, S., Lassabatere, L., Rodrigo-Comino, J., Marrosu, R., Pulido, M., Angulo-Jaramillo, R., Úbeda, X., Keesstra, S., Cerdà, A., Pirastru, M., 2018. Comparing Transient and Steady-State Analysis of Single-Ring Infiltrometer Data for an Abandoned Field Affected by Fire in Eastern Spain. *Water* 10, 514. <https://doi.org/10.3390/w10040514>
- Bagarello, V., Di Prima, S., Iovino, M., 2017. Estimating saturated soil hydraulic conductivity by the near steady-state phase of a Beerkan infiltration test. *Geoderma* 303, 70–77. <https://doi.org/10.1016/j.geoderma.2017.04.030>
- Castellini, M., Di Prima, S., Iovino, M., 2018. An assessment of the BEST procedure to estimate the soil water retention curve: A comparison with the evaporation method. *Geoderma* 320, 82–94. <https://doi.org/10.1016/j.geoderma.2018.01.014>
- Lozano-Baez, S.E., Cooper, M., Ferraz, S.F.B., Ribeiro Rodrigues, R., Pirastru, M., Di Prima, S., 2018. Previous Land Use Affects the Recovery of Soil Hydraulic Properties after Forest Restoration. *Water* 10, 453. <https://doi.org/10.3390/w10040453>
- Pirastru, M., Marrosu, R., Di Prima, S., Keesstra, S., Giadrossich, F., Niedda, M., 2017. Lateral Saturated Hydraulic Conductivity of Soil Horizons Evaluated in Large-Volume Soil Monoliths. *Water* 9, 862. <https://doi.org/10.3390/w9110862>

7 Jul 2017–22 Jul 2017

Fellow

Soil Physics and Land Management Group, Wageningen University, Droevendaalsesteeg 4, 6708PB Wageningen, The Netherlands

Earth System Science and Environmental Management (ESSEM) COST Action ES1306 “Connecting European connectivity research”.

Research output:

- Di Prima, S., Concialdi, P., Lassabatere, L., Angulo-Jaramillo, R., Pirastru, M., Cerda, A., Keesstra, S., 2018. Laboratory testing of Beerkan infiltration experiments for assessing the role of soil sealing on water infiltration. *CATENA* 167, 373–384. <https://doi.org/10.1016/j.catena.2018.05.013>

1 Sep 2016–21 Dec 2016

Research Associate

University of Palermo, Palermo (Italy)

Supporto alla ricerca per l'esecuzione di prove infiltrometriche del tipo BEST (Beerkan Estimation of Soil Transfer parameters) in suoli coltivati a vigneto ed elaborazione del complesso delle prove (CISV project).

Research output:

- Alagna, V., Bagarello, V., Di Prima, S., Giordano, G., Iovino, M., 2016. Testing infiltration run effects on the estimated water transmission properties of a sandy-loam soil. *Geoderma* 267, 24–33. <https://doi.org/10.1016/j.geoderma.2015.12.029>
- Alagna, V., Bagarello, V., Di Prima, S., Guitoli, F., Iovino, M., Keesstra, S., Cerdà, A., 2019. Using beerkan experiments to estimate hydraulic conductivity of a crusted loamy soil in a Mediterranean vineyard. *Journal of Hydrology and Hydromechanics* 67. <https://doi.org/10.2478/johh-2018-0023>

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Sept 2015–15 June 2016

Research Associate

Department of Geography, University of Valencia, Valencia (Spain)

Research on protecting and remediating soil degradation threats across Europe (European Union Seventh Framework Programme, FP7/2007-2013 RECARE project).

Research output:

- Di Prima, S., Bagarello, V., Lassabatere, L., Angulo-Jaramillo, R., Bautista, I., Burguet, M., Cerdà, A., Iovino, M., Prosdocimi, M., 2017. Comparing Beerkan infiltration tests with rainfall simulation experiments for hydraulic characterization of a sandy-loam soil. *Hydrological Processes* 31, 3520–3532. <https://doi.org/10.1002/hyp.11273>
- Di Prima, S., Rodrigo-Comino, J., Novara, A., Iovino, M., Pirastru, M., Keesstra, S., Cerdà, A., 2018. Soil Physical Quality of Citrus Orchards Under Tillage, Herbicide, and Organic Managements. *Pedosphere* 28, 463–477. [https://doi.org/10.1016/S1002-0160\(18\)60025-6](https://doi.org/10.1016/S1002-0160(18)60025-6)
- Prosdocimi, M., Burguet, M., Di Prima, S., Sofia, G., Terol Esperanza, E., Rodrigo Comino, J., Cerdà, A., Tarolli, P., 2017. Rainfall simulation and Structure-from-Motion photogrammetry for the analysis of soil water erosion in Mediterranean vineyards. *Science of the Total Environment*. <https://doi.org/10.1016/j.scitotenv.2016.09.036>
- Cerdà, A., Keesstra, S.D., Rodrigo-Comino, J., Novara, A., Pereira, P., Brevik, E., Giménez-Morera, A., Fernández-Raga, M., Pulido, M., Di Prima, S., Jordán, A., 2017. Runoff initiation, soil detachment and connectivity are enhanced as a consequence of vineyards plantations. *Journal of Environmental Management* 202, Part 1, 268–275. <https://doi.org/10.1016/j.jenvman.2017.07.036>
- Alagna, V., Di Prima, S., Rodrigo-Comino, J., Iovino, M., Pirastru, M., Keesstra, S.D., Novara, A., Cerdà, A., 2017. The Impact of the Age of Vines on Soil Hydraulic Conductivity in Vineyards in Eastern Spain. *Water* 10, 14. <https://doi.org/10.3390/w10010014>
- Keesstra, S., Rodrigo-Comino, J., Novara, A., Giménez-Morera, A., Pulido, M., Di Prima, S., Cerdà, A., 2018. Straw mulch as a sustainable solution to decrease runoff and erosion in clementine plantations in Eastern Spain. An assessment using rainfall simulation experiments. Submitted to CATENA.

30 Oct 2015–29 Feb 2016

Research Fellow

Department of Agricultural and Forest Sciences, University of Palermo (Italy).

Infiltration and runoff in forest soils (FIRB 2012 - MIMOSE project)

Research output:

- Di Prima, S., Bagarello, V., Angulo-Jaramillo, R., Bautista, I., Cerdà, A., del, C.A., González-Sanchis, M., Iovino, M., Lassabatere, L., Maetzke, F., 2017. Impacts of thinning of a Mediterranean oak forest on soil properties influencing water infiltration. *Journal of Hydrology and Hydromechanics* 65, 276–286. <https://doi.org/10.1515/johh-2017-0016>

17 Jan 2012–17 Sep 2012

Research Fellow

Fondazione Angelo e Salvatore Lima Mancuso, University of Palermo, Palermo (Italy)

Developing and testing alternative methods to obtain saturated soil hydraulic conductivity data with minimal experimental efforts and theoretical constraints (CISS project).

Research output:

- Aiello, R., Bagarello, V., Barbagallo, S., Consoli, S., Di Prima, S., Giordano, G., Iovino, M., 2014. An assessment of the Beerkan method for determining the hydraulic properties of a sandy loam soil. *Geoderma* 235–236, 300–307. <https://doi.org/10.1016/j.geoderma.2014.07.024>
- Bagarello, V., Baiamonte, G., Castellini, M., Di Prima, S., Iovino, M., 2014a. A comparison between the single ring pressure infiltrometer and simplified falling head techniques. *Hydrological Processes* 28, 4843–4853. <https://doi.org/10.1002/hyp.9980>
- Bagarello, V., Castellini, M., Di Prima, S., Giordano, G., Iovino, M., 2013. Testing a Simplified Approach to Determine Field Saturated Soil Hydraulic Conductivity. *Procedia Environmental Sciences* 19, 599–608. <https://doi.org/10.1016/j.proenv.2013.06.068>
- Bagarello, V., Castellini, M., Di Prima, S., Iovino, M., 2014b. Soil hydraulic properties determined by infiltration experiments and different heights of water pouring. *Geoderma* 213, 492–501. <https://doi.org/10.1016/j.geoderma.2013.08.032>
- Bagarello, V., Di Prima, S., Giordano, G., Iovino, M., 2014c. A test of the Beerkan Estimation of Soil Transfer parameters (BEST) procedure. *Geoderma* 221–222, 20–27.

<https://doi.org/10.1016/j.geoderma.2014.01.017>

- Bagarello, V., Di Prima, S., Iovino, M., 2014d. Comparing Alternative Algorithms to Analyze the Beerkan Infiltration Experiment. *Soil Science Society of America Journal* 78, 724. <https://doi.org/10.2136/sssaj2013.06.0231>
- Bagarello, V., Di Prima, S., Iovino, M., Provenzano, G., 2014e. Estimating field-saturated soil hydraulic conductivity by a simplified Beerkan infiltration experiment. *Hydrological Processes* 28, 1095–1103. <https://doi.org/10.1002/hyp.9649>

TEACHING AND SUPERVISORY

- Training School on measurements for water and sediment connectivity (<http://connecteur.info/training-school-valencia/>). Earth System Science and Environmental Management (ESSEM) COST Action ES1306 “Connecting European connectivity research”. El Teularet Soil Erosion and Degradation Research Station. Department of Geography, University of Valencia, Valencia (Spain). 26 Sep 2017–1 Oct 2017.
- Co-advisor of the PhD student Paola Concialdi from Università degli Studi di Palermo, during her period at the Laboratory d'Ecologie des Hydrosystèmes Naturels et Anthropisés (LEHNA), Vaulx - en - Velin, France, within the framework of the project INFILTRON (ANR-17-CE04-0010) funded by the French National Research Agency (ANR).
- Co-advisor of the PhD student Sergio Esteban Lozano Baez from Universidade de São Paulo, Escola Superior de Agricultura “Luiz de Queiroz”. Av. Pádua Dias, 11 Caixa Postal 9 Piracicaba/SP 13418-900, Brazil.

Research output:

- Lozano-Baez, S.E., Cooper, M., Ferraz, S.F.B., Ribeiro Rodrigues, R., Pirastru, M., Di Prima, S., 2018. Previous Land Use Affects the Recovery of Soil Hydraulic Properties after Forest Restoration. *Water* 10. <https://doi.org/10.3390/w10040453>
- Lozano-Baez, S.E., Cooper, M., Ferraz, S.F.B., Ribeiro Rodrigues, R., Castellini, M., Di Prima, S., 2019. Recovery of Soil Hydraulic Properties for Assisted Passive and Active Restoration: Assessing Historical Land Use and Forest Structure. Submitted to *Water*.
- Co-advisor of the PhD student Tarokh Ahmadi from the University of Zabol, Iran. Dissertation: “Estimating soil hydraulic properties and their uncertainty through Beerkan infiltration experiment in Sistan Dam research station”.
- Co-advisor of the Master student Francesco Attardo, from the Università degli Studi di Palermo. Master thesis: “Verifica del metodo SSBI (steady version of the simplified method based on a beerkan infiltration run) per la determinazione in campo della conducibilità idraulica alla saturazione del suolo”.
- Laboratory classes at the University of Palermo (Italy): 1) “Tecniche ingegneristiche per la conservazione del suolo - Laurea Magistrale in Agroingegneria”; 2) “Erosione e conservazione del suolo - Laurea Magistrale in Scienze Forestali ed Ambientali e in Riqualificazione Ambientale ed Ingegneria Naturalistica”.

COLLABORATIONS WITH INTERNATIONAL RESEARCH TEAMS

Oct 2015–29 June 2016

Research Fellow

Universitat Politècnica de València, Research Institute of Water and Environmental Engineering - Re-Forest, Valencia, Spain.

Project: Hydrologic characterization of forest at plot structures for management Adaptive. Hydrosol project: CGL2011-28776-C02-02

Research output:

- Di Prima, S., Bagarello, V., Angulo-Jaramillo, R., Bautista, I., Cerdà, A., del, C.A., González-Sanchis, M., Iovino, M., Lassabatere, L., Maetzke, F., 2017. Impacts of thinning of a Mediterranean oak forest on soil properties influencing water infiltration. *Journal of Hydrology and Hydromechanics* 65, 276–286. <https://doi.org/10.1515/johh-2017-0016>

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OTHER RESEARCH EXPERIENCE

1 Sep 2014–30 Nov 2014

Fellowship

Ecole Nationale des Travaux Publics de l'Etat, Vaulx-En-Velin, Lyon (France)

Scholarship for science research provided by Embassy of France in Italy.

Research output:

- Di Prima, S., Lassabatere, L., Bagarello, V., Iovino, M., Angulo-Jaramillo, R., 2016. Testing a new automated single ring infiltrometer for Beerkan infiltration experiments. *Geoderma* 262, 20–34. <https://doi.org/10.1016/j.geoderma.2015.08.006>

1 Aug 2008–4 Sep 2008

Practical Training

Maison Shalom ONG, Ruyigi (Burundi)

Research output:

- Bagarello, V., Di Prima, S., Iovino, M., Provenzano, G., Sgroi, A., 2011. Testing different approaches to characterize Burundian soils by the BEST procedure. *Geoderma* 162, 141–150. <https://doi.org/10.1016/j.geoderma.2011.01.014>

14 Jun 2009–5 Jul 2009

Practical Training

Maison Shalom ONG, Ruyigi (Burundi)

Research output:

<http://www.climateofburundi.altervista.org/>

CONFERENCE PARTICIPATION

- Chairman for the session “Soil aggregation and water flow: from pedon to field scale” (SSS7.6/BG2.66/HS8.3.11) to be held at EGU2019, Vienna, Austria 7-12 April 2019.
- Vienna, Austria, 8–13 April 2018. European Geosciences Union General Assembly 2018.
- Barcelona, Spagna, 29 Gennaio–2 Febbraio 2018. TERRAenVISION.
- Trier, Germania, 23–25 Novembre 2017. Vineyards: Connecting dynamics, processes and farmers (ECOST-MEETING).
- Palermo, 4–5 Maggio 2017. Attualità dell'idraulica agraria e delle sistemazioni idraulico-forestali al cambiare dei tempi.
- Vienna, Austria, 23–28 Aprile 2017. European Geosciences Union General Assembly 2017.
- Vienna, Austria, 17–22 Aprile 2016. European Geosciences Union General Assembly 2016.
- Palermo, 28 Febbraio–5 Marzo 2016. Hydrological and Erosion processes in Mediterranean Landscapes: Impacts of land management on connectivity (ECOST-MEETING).
- Vienna, Austria, 12–17 Aprile 2015. European Geosciences Union General Assembly 2015.
- Bari, 10–14 September 2013. CIGR Inter-Regional Conference on Land and Water Challenges.
- Napoli, 19–20 Giugno 2013. Four Decades of Progress in Monitoring and Modeling of Processes In the Soil-Plant-Atmosphere System: Applications and Challenges.
- Palermo, 10-11 Maggio 2012. Previsione e Mitigazione dei Fenomeni di Dissesto Idrogeologico in Italia – Il Contributo del Settore delle Sistemazioni Idraulico-Forestali.

REVIEW RECORDS

<https://publons.com/researcher/1199509/simone-di-prima/>

- Geoderma
- Vadose Zone Journal
- PeerJ
- Catena
- Soil and Tillage Research

- Water
- Journal of Hydrology and Hydromechanics
- Land Degradation & Development

EDITOR RECORDS

<https://publons.com/researcher/1199509/simone-di-prima/>

Guest editor of the special issue "Soil Water Conservation: Dynamics and Impact" on Water (ISSN: 2073-4441).

Guest editor of the special issue "Soil Hydrology for a Sustainable Land Management. Theory and Practice" on Water (ISSN: 2073-4441).

PUBLICATIONS LIST

1. Aiello, R., Bagarello, V., Barbagallo, S., Consoli, S., Di Prima, S., Giordano, G., Iovino, M., 2014. An assessment of the Beerkan method for determining the hydraulic properties of a sandy loam soil. *Geoderma* 235–236, 300–307. <https://doi.org/10.1016/j.geoderma.2014.07.024>
2. Alagna, V., Bagarello, V., Di Prima, S., Giordano, G., Iovino, M., 2016a. Testing infiltration run effects on the estimated water transmission properties of a sandy-loam soil. *Geoderma* 267, 24–33. <https://doi.org/10.1016/j.geoderma.2015.12.029>
3. Alagna, V., Bagarello, V., Di Prima, S., Giordano, G., Iovino, M., 2013. A simple field method to measure the hydrodynamic properties of soil surface crust. *Journal of Agricultural Engineering* 44, 74–79. [https://doi.org/10.4081/jae.2013.\(s1\):e14](https://doi.org/10.4081/jae.2013.(s1):e14)
4. Alagna, V., Bagarello, V., Di Prima, S., Guaitoli, F., Iovino, M., Keesstra, S., Cerdà, A., 2019. Using beerkan experiments to estimate hydraulic conductivity of a crusted loamy soil in a Mediterranean vineyard. *Journal of Hydrology and Hydromechanics* 67. <https://doi.org/10.2478/johh-2018-0023>
5. Alagna, V., Bagarello, V., Di Prima, S., Iovino, M., 2016b. Determining hydraulic properties of a loam soil by alternative infiltrometer techniques. *Hydrological Processes* 30, 263–275. <https://doi.org/10.1002/hyp.10607>
6. Alagna, V., Di Prima, S., Rodrigo-Comino, J., Iovino, M., Pirastru, M., Keesstra, S.D., Novara, A., Cerdà, A., 2018. The Impact of the Age of Vines on Soil Hydraulic Conductivity in Vineyards in Eastern Spain. *Water* 10. <https://doi.org/10.3390/w10010014>
7. Bagarello, V., Baiamonte, G., Castellini, M., Di Prima, S., Iovino, M., 2014a. A comparison between the single ring pressure infiltrometer and simplified falling head techniques. *Hydrological Processes* 28, 4843–4853. <https://doi.org/10.1002/hyp.9980>
8. Bagarello, V., Castellini, M., Di Prima, S., Giordano, G., Iovino, M., 2013. Testing a Simplified Approach to Determine Field Saturated Soil Hydraulic Conductivity. *Procedia Environmental Sciences* 19, 599–608. <https://doi.org/10.1016/j.proenv.2013.06.068>
9. Bagarello, V., Castellini, M., Di Prima, S., Iovino, M., 2014b. Soil hydraulic properties determined by infiltration experiments and different heights of water pouring. *Geoderma* 213, 492–501. <https://doi.org/10.1016/j.geoderma.2013.08.032>
10. Bagarello, V., Di Prima, S., Giordano, G., Iovino, M., 2014c. A test of the Beerkan Estimation of Soil Transfer parameters (BEST) procedure. *Geoderma* 221–222, 20–27. <https://doi.org/10.1016/j.geoderma.2014.01.017>
11. Bagarello, V., Di Prima, S., Iovino, M., 2017. Estimating saturated soil hydraulic conductivity by the near steady-state phase of a Beerkan infiltration test. *Geoderma* 303, 70–77. <https://doi.org/10.1016/j.geoderma.2017.04.030>
12. Bagarello, V., Di Prima, S., Iovino, M., 2014d. Comparing Alternative Algorithms to Analyze the Beerkan Infiltration Experiment. *Soil Science Society of America Journal* 78, 724. <https://doi.org/10.2136/sssaj2013.06.0231>
13. Bagarello, V., Di Prima, S., Iovino, M., Provenzano, G., 2014e. Estimating field-saturated soil hydraulic conductivity by a simplified Beerkan infiltration experiment. *Hydrological Processes* 28, 1095–1103. <https://doi.org/10.1002/hyp.9649>
14. Bagarello, V., Di Prima, S., Iovino, M., Provenzano, G., Sgroi, A., 2011. Testing different

- approaches to characterize Burundian soils by the BEST procedure. *Geoderma* 162, 141–150. <https://doi.org/10.1016/j.geoderma.2011.01.014>
15. Castellini, M., Di Prima, S., Iovino, M., 2018. An assessment of the BEST procedure to estimate the soil water retention curve: A comparison with the evaporation method. *Geoderma* 320, 82–94. <https://doi.org/10.1016/j.geoderma.2018.01.014>
 16. Cerdà, A., Keesstra, S.D., Rodrigo-Comino, J., Novara, A., Pereira, P., Brevik, E., Giménez-Morera, A., Fernández-Raga, M., Pulido, M., Di Prima, S., Jordán, A., 2017. Runoff initiation, soil detachment and connectivity are enhanced as a consequence of vineyards plantations. *Journal of Environmental Management* 202, Part 1, 268–275. <https://doi.org/10.1016/j.jenvman.2017.07.036>
 17. Di Prima, S., 2015. Automated single ring infiltrometer with a low-cost microcontroller circuit. *Computers and Electronics in Agriculture* 118, 390–395. <https://doi.org/10.1016/j.compag.2015.09.022>
 18. Di Prima, S., Bagarello, V., Angulo-Jaramillo, R., Bautista, I., Cerdà, A., del, C.A., González-Sanchis, M., Iovino, M., Lassabatere, L., Maetzke, F., 2017a. Impacts of thinning of a Mediterranean oak forest on soil properties influencing water infiltration. *Journal of Hydrology and Hydromechanics* 65, 276–286. <https://doi.org/10.1515/johh-2017-0016>
 19. Di Prima, S., Bagarello, V., Lassabatere, L., Angulo-Jaramillo, R., Bautista, I., Burguet, M., Cerdà, A., Iovino, M., Prosdocimi, M., 2017b. Comparing Beerkan infiltration tests with rainfall simulation experiments for hydraulic characterization of a sandy-loam soil. *Hydrological Processes* 31, 3520–3532. <https://doi.org/10.1002/hyp.11273>
 20. Di Prima, S., Castellini, M., Pirastru, M., Keesstra, S., 2018a. Soil Water Conservation: Dynamics and Impact. *Water* 10, 952. <https://doi.org/10.3390/w10070952>
 21. Di Prima, S., Concialdi, P., Lassabatere, L., Angulo-Jaramillo, R., Pirastru, M., Cerdà, A., Keesstra, S., 2018b. Laboratory testing of Beerkan infiltration experiments for assessing the role of soil sealing on water infiltration. *CATENA* 167, 373–384. <https://doi.org/10.1016/j.catena.2018.05.013>
 22. Di Prima, S., Lassabatere, L., Bagarello, V., Iovino, M., Angulo-Jaramillo, R., 2016. Testing a new automated single ring infiltrometer for Beerkan infiltration experiments. *Geoderma* 262, 20–34. <https://doi.org/10.1016/j.geoderma.2015.08.006>
 23. Di Prima, S., Lassabatere, L., Rodrigo-Comino, J., Marrosu, R., Pulido, M., Angulo-Jaramillo, R., Úbeda, X., Keesstra, S., Cerdà, A., Pirastru, M., 2018c. Comparing Transient and Steady-State Analysis of Single-Ring Infiltrometer Data for an Abandoned Field Affected by Fire in Eastern Spain. *Water* 10. <https://doi.org/10.3390/w10040514>
 24. Di Prima, S., Marrosu, R., Lassabatere, L., Angulo-Jaramillo, R., Pirastru, M., 2018d. In situ characterization of preferential flow by combining plot- and point-scale infiltration experiments on a hillslope. *Journal of Hydrology* 563, 633–642. <https://doi.org/10.1016/j.jhydrol.2018.06.033>
 25. Di Prima, S., Rodrigo-Comino, J., Novara, A., Iovino, M., Pirastru, M., Keesstra, S., Cerdà, A., 2018e. Soil Physical Quality of Citrus Orchards Under Tillage, Herbicide, and Organic Managements. *Pedosphere* 28, 463–477. [https://doi.org/10.1016/S1002-0160\(18\)60025-6](https://doi.org/10.1016/S1002-0160(18)60025-6)
 26. Keesstra, S., Rodrigo-Comino, J., Novara, A., Giménez-Morera, A., Pulido, M., Di Prima, S., Cerdà, A., 2019. Straw mulch as a sustainable solution to decrease runoff and erosion in glyphosate-treated clementine plantations in Eastern Spain. An assessment using rainfall simulation experiments. *CATENA* 174, 95–103. <https://doi.org/10.1016/j.catena.2018.11.007>
 27. Lassabatere, L., Di Prima, S., Angulo-Jaramillo, R., Keesstra, S., Cerdà, A., in press. Beerkan multi-runs for characterizing water infiltration and spatial variability of soil hydraulic properties across scales. *Hydrological Sciences Journal*. <https://doi.org/10.1080/02626667.2018.1560448>
 28. Lassabatere, L., Di Prima, S., Bouarafa, S., Iovino, M., Bagarello, V., Angulo Jaramillo, R., in press. BEST-2K for characterizing dual-permeability unsaturated soils with ponded and tension infiltrometers. *Vadose Zone Journal*.
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