

PASQUALE BORRELLI (Prof. Dr.)

Department of Earth and Environmental Sciences, University of Pavia,
Via Ferrata 1, IT-27100 Pavia, Italy

Date and Place of Birth: 28 April 1979, Rome, Italy

Nationality: Italian

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[Scopus](#)

[WoS](#)

Areas of Specialization

- Quantitative geomorphology
- Environmental modeling with GIS
- Land-use/ cover change
- Land and soil degradation processes
- Remote sensing & surface ideography
- Multiscale environmental assessment

Language

Italian (mother tongue), English (fluent), Spanish (advanced), German (basic knowledge)

Education

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| 2018 | National Academic Habilitation (sector: 04/A3; Geo04) (Italy) |
| 2011 | Ph.D. (Dr. rer. nat.) in Geoscience, Freie Universität Berlin (Germany) (<i>magna cum laude</i>) |
| 2006 | Diploma, Sapienza University of Rome (Italy) (<i>110 e lode</i>) |
| 2005 | Exchange student, Department of Geography, University of Cantabria (Spain) |

Positions Held

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| 09.2020-to date | Associate Professor, Department of Earth and Environmental Sciences, University of Pavia. |
| 01.2020-08.2020 | Visiting Research Professor, Department of Biological Environment, Kangwon National University, Chuncheon, Republic of Korea. |
| 09.2016-12.2019 | Research Associate, Department of Environmental Sciences, University of Basel, Switzerland. |
| 11. 2018- 01. 2019 | Adjunct Scientist, Land and Water Division at the Food and Agriculture Organization (FAO) of the United Nations, Rome, Italy. |
| 06. 2016-06.2019 | Scientific Advisor, Directorate for Sustainable Resources, European Commission Joint Research Centre, Ispra, Italy. |
| 06.2013-05.2016 | Postdoc, Institute for Environment and Sustainability, European Commission Joint Research Centre, Ispra, Italy. |
| 11.2012-05.2013 | Postdoc, Department of Geosciences, Freie Universität Berlin, Germany. |
| 06.2012-10.2012 | Postdoc, Geographical Institute Humboldt-Universität, Berlin, Germany. |
| 10. 2011-05.2012 | Postdoc, Department of Geosciences, Freie Universität Berlin, Germany. |

- 10.2007-07.2011 Doctorate at German Topoi Excellence Cluster (Dr. rer. nat.), Department of Geosciences, Freie Universität Berlin, Germany.
- 03.2007-06.2007 Guest scholar, Departamento de Análisis Regional y Geografía, Universidad de Granada, Granada, Spain.
- 10.2006-01.2007 Trainee, Centre for GeoTechnologies, University of Siena, San Giovanni Valdarno, Italy.

Ongoing Collaborations and Outreaching Activities

My scientific career path reflects my great interest and familiarity to work in international and multidisciplinary environments. My achieved my scientific milestones in collaboration with international research institutions (e.g., European Commission, Joint Research Centre, United Nations' FAO, United Nations' World Food Programme, WWF, US Department of Agriculture, INRA, ZALF) and scholars from over 50 universities (e.g., ETH Zurich, Stanford University, McGill University, KU Leuven University, Kangwon National University, Wageningen University, Iowa State University, Beijing Normal University, Freie Universität Berlin). Some past/ongoing collaborations and key persons:

- McGill University - Prof. B. Lehner
- Stanford University - Dr. R. Schmitt, Dr. R. Chaplin-Kramer
- European Commission Joint Research Centre - Dr. P. Panagos, Dr. L. Montanarella, Dr. C. Ballabio, Dr. E. Lugato
- Kangwon National University - Prof. J. Yang
- ETH Zürich - Dr. D Wüpper & Prof. R. Finger
- NERC - Centre for Ecology and Hydrology (Dr. D.A. Robinson)
- University KU Leuven (Prof. J. Poesen)
- Iowa State University (Prof. R. Cruse)
- Colorado State University (Prof. K. Paustian)
- Université catholique de Louvain (Prof. K. Van Oost)
- Università di Palermo (Prof. V. Ferro)
- Università di Palermo (Prof. V. Bagarello)
- ISRIC - World Soil Information (Dr. L. Poggio)
- European Commision Joint Research Centr Siviglia (Dr. M. Sartori)
- Freie University of Berlin, Germany (Prof. Dr. B. Schütt)
- United States Department of Agriculture, USDA (Dr. M. Nearing)
- Tottori University (Prof. N. Haregeweyn)
- University of Aberdeen (Prof. P. Smith)
- World Food Program (Dr. S. Modugno)
- Swiss Federal Institute for Forest (Dr. K. Meusburger)
- Universität für Bodenkultur of Vienna (Prof. A. Klik)
- Spanish National Research Council (Dr. S. Beguería)
- Met European Research Observatory (Dr. N. Diodato)
- INRA (Prof. G. Bellocchi)
- Beijing Normal University (Prof. S. Yin)

- National Centre for Earth Observation of United Kingdom (Prof. H. Balzter)
- Ankara Üniversitesi (Prof. G. Erpul)
- University of Valencia (Prof. A. Cerda)
- Spanish National Research Council (Dr. M. López-Vicente)
- Chinese Academy of Sciences, ISWC Institute (Rui Li)

Awards and Grants (selected)

- Distinguished Researcher Award (DEA Medal 2019) of the World Association of Soil and Water Conservation (WASWAC)
- JRC Postdoc Grant cat. 30. Funded by the European Commission FP7 funding (2013-2016)
- Dahlem-Postdoc-Grant. Funded by Freie Universität Berlin. Status: Rejected by applicant (2013-16)
- Topoi Postdoc Grant. Funded by Humboldt-Universität, Germany (2012)
- Elsa-Neumann-Scholarship for Ph.D. students. Funded by Land Berlin, Germany (2009-2011)
- Outstanding Students Award. Prizewinner of the post-degree scholarships for the specialization abroad. Funded by Sapienza University of Rome (2007)
- Leonardo da Vinci Mobility Grant. Funded by the EU FP6 (2007)
- Erasmus Mobility Grant. Funded by the Sapienza University of Rome (2005)

Keynote Speaker and Invited Talks (selected)

- EcoSSSoil International Symposium. Linkage of the Soil-Cyber Systems to Soil Health & Ecosystem Services. December 4-5, 2019. The K-Hotel, Seoul, Korea.
- GSER19, Global Symposium on Soil Erosion of the UN FAO, Rome, Italy, May, 15-17, 2019
- GSERF 2018, Global Soil Erosion Research Forum 2018. Shaanxi, China, September, 14, 2018
- OECD-Luke Workshop, The Use of New Technologies for Agri-Environmental Indicators to Support Effective Policy Monitoring, Evaluation and Design. House of Estates, Helsinki, Finland, May 30, 2018
- GSOC17, Global Symposium on Soil Organic Carbon, FAO, Rome Italy, March, 22, 2017
- The Global Task to Conserve our Soil Resource, Seoul, South Korea, December, 12, 2017
- 4th ICT, Surface Soil Management Strategy Using the Emerging ICT in the 4th Industrial Revolution, Seoul, South Korea, March, 31, 2017
- Forest Landscape Restoration. Expo 2015, Milan, Italy. October, 24, 2015
- European Commission Greening Workshop. Prague, Czech Republic, October, 21, 2015

Assignments, Memberships and Editorial Board


- Committee Chair of the SSS2 Soil Erosion and Conservation of the European Geoscience Union (EGU)
- Member of the Steering Committee of the UN FAO Global Soil Erosion Assessment (GSER19)
- Associate Editor of the International Soil and Water Conservation Research (ISWCR)
- Member of the World Association of Soil and Water Conservation (WASWAC)
- Member of the European Geosciences Union (EGU)


- Member of the International Union of Soil Sciences (IUSS)
- Member of the Associazione Italiana di Geografia fisica e Geomorfologia (AIGeo)


Convener Activities (Selected)


- European Geosciences Union 2020: SSS2.8 Soil Erosion and Conservation. Virtual EGU2020 (due to covid-19), 4 May, 2019. Borrelli P. et al.
- European Geosciences Union 2019: HS9.2.10. Connectivity in geomorphology, hydrological and soil system sciences: concepts, methods and societal implications. Pöpl R. Borrelli P. et al. Vienna (AT).
- 21st World Congress of Soil Science (WCSS), Divisional Symposium C3.2.5 - Soil erosion modelling: Global Alliance. Rio de Janeiro, August, 14, 2018. Conveners: P. Borrelli, P. Panagos and J. Yang
- European Geosciences Union 2018: SSS2.5. Land Degradation and Soil Conservation. Vienna, Austria, April, 12, 2018. Conveners: M. López-Vicente and P. Borrelli
- SSORii 2017. The Global Task to Conserve our Soil Resource. Seoul, South Korea, December, 5, 2017. Chair: Jae Yang, co-Chair: P. Borrelli, P. Panagos
- First Soil Erosion Modelling Workshop. Ispra, Italy, March, 21, 2017. Conveners: P. Panagos, P. Borrelli

Publications

Over 70 international peer-reviewed publications (source  [Google Scholar](#)) with + 4200 citations, h-index 30, i10-index 50 and more >20 peer-reviewed (ISI) article as first-author.

[ISI WoS](#) (): **60** documenti, **>3000** citazioni, h-index **27**

[Scopus](#) (): **65** documenti, **>3000** citazioni, h-index **28**

[Google Scholar](#) (): **>90** documenti **>4200** citazioni, h-index **30** e i10-index **50**

[ResearchGate](#) (): **110** documenti; **>3600** citazioni, **1037** 'recommendations', **71,500** 'reads'

Some articles published in high impact factor journals (hyperlink)



Selected Publications

Borrelli, P., Robinson, D. A., Panagos, P., Lugato, E., Yang, J. E., Alewell, C., ... & Ballabio, C. (2020). Land use and climate change impacts on global soil erosion by water (2015-2070). *Proceedings of the National Academy of Sciences (PNAS)*, 117(36), 21994-22001 ([link](#)).

Borrelli, P., Robinson, D.A., et al. An assessment of the global impact of 21st century land use change on soil erosion (2017) *Nature Communications*, 8 (1), art. no. 20131. **Altmetric score 419** (in the **99th percentile** (ranked 1,334th) of the 384,458 tracked articles of a similar age in all journals) ([link](#)). **106 citations**.

Grill, G., Lehner, B., Thieme, M., Bart, G., Dave, T., Antonelli, F., Babu, S, **Borrelli, P.**, *et al.* 2019. Mapping the world's free-flowing rivers, *Nature*, 569, 215–221. **Altmetric score 1,336** (in the **99th percentile** (ranked 85th) of the 231,474 tracked articles of a similar age in all journals) ([link](#)).

Peer-reviewed (ISI) Publications

[2020]

1. Alewell, C., Ringeval, B., Ballabio, C., Robinson, D. A., Panagos, P., & **Borrelli, P.** (2020). Global phosphorus shortage will be aggravated by soil erosion. *Nature Communications*, 11(1), 1-12.
2. Wuepper, D., **Borrelli, P.**, Finger, R. Countries and the global rate of soil erosion. *Nature Sustainability*. 2020/1.
3. **Borrelli, P.**, Robinson, D. A., Panagos, P., Lugato, E., Yang, J. E., Alewell, C., ... & Ballabio, C. (2020). Land use and climate change impacts on global soil erosion by water (2015-2070). *Proceedings of the National Academy of Sciences (PNAS)*, 117(36), 21994-22001.
4. Wuepper, D., **Borrelli, P.**, Mueller, D., & Finger, R. (2020). Quantifying the soil erosion legacy of the Soviet Union. *Agricultural Systems*, 185, 102940.
5. Bezak, N., Ballabio, C., Mikoš, M., Petan, S., **Borrelli, P.**, & Panagos, P. (2020). Reconstruction of past rainfall erosivity and trend detection based on the REDES database and reanalysis rainfall. *Journal of Hydrology*, 125372.
6. Meusburger, K., Evrard, O., Alewell, C., **Borrelli, P.**, Cinelli, G., Ketterer, M., ... & Ballabio, C. (2020). Plutonium aided reconstruction of caesium atmospheric fallout in European topsoils. *Scientific reports*, 10(1), 1-16.
7. **Borrelli, P.**, & Panagos, P. (2020). An indicator to reflect the mitigating effect of Common Agricultural Policy on soil erosion. *Land Use Policy*, 92, 104467.
8. Fenta, A. A., Tsunekawa, A., Haregeweyn, N., Poesen, J., Tsubo, M., **Borrelli, P.**, ... & Kawai, T. (2020). Land susceptibility to water and wind erosion risks in the East Africa region. *Science of The Total Environment*, 703, 135016.
9. Diodato, N., **Borrelli, P.**, Bellocchi, G., Filizola, N., **Borrelli, P.**, Panagos, P. The Rise of Climate-Driven Sediment Discharge in the Amazonian River Basin. *Atmosphere* 2020, 11(2), 208.
10. **Borrelli, P.**, Panagos, P., & Wuepper, D. (2020). Positive cascading effect of restoring forests. *International Soil and Water Conservation Research*, 8(1), 102-102.
11. Panagos, P., Ballabio, C., Poesen, J., Lugato, E., Scarpa, S., Montanarella, L., & **Borrelli, P.** (2020). A Soil Erosion Indicator for Supporting Agricultural, Environmental and Climate Policies in the European Union. *Remote Sensing*, 12(9), 1365.
12. Montanarella, L., Olmedo, G.F., Yigini, Y., Guevara, M., Viatkin, K., **Borrelli, P.**, et al. Solving the Large Discrepancies of the Soil Organic Carbon Pool: The United-Nations GSOCmap. *In press*.

[2019]

13. Ballabio, C., Lugato, E., Fernández-Ugalde, O., Orgiazzi, A., Jones, A., **Borrelli, P.**, ... & Panagos, P. (2019). Mapping LUCAS topsoil chemical properties at European scale using Gaussian process regression. *Geoderma*, 355, 113912
14. Panagos, P., **Borrelli, P.**, & Robinson, D. (2019). FAO calls for actions to reduce global soil erosion. *Mitigation and Adaptation Strategies for Global Change*, 1-2.

15. Alewell, C., **Borrelli**, P., Meusburger, K., & Panagos, P. (2019). Using the USLE: Chances, challenges and limitations of soil erosion modelling. *International soil and water conservation research*, 7(3), 203-225.
16. Sartori, M., Philippidis, G., Ferrari, E., **Borrelli**, P., Lugato, E., Montanarella, L., & Panagos, P. (2019). A linkage between the biophysical and the economic: Assessing the global market impacts of soil erosion. *Land Use Policy*, 86, 299-312.
17. Panagos, P., Borrelli, P., & Poesen, J. (2019). Soil loss due to crop harvesting in the European Union: A first estimation of an underrated geomorphic process. *Science of the Total Environment*, 664, 487-498.
18. Grill, G., Lehner, B., Thieme, M., Geenen, B., Tickner, D., Antonelli, F., **Borrelli**, P. ... & Macedo, H. E. (2019). Mapping the world's free-flowing rivers. *Nature*, 569(7755), 215-221.

[2018]

19. Lugato, E., Smith, P., **Borrelli**, P., Panagos, P., Ballabio, C., Orgiazzi, A., ... & Jones, A. (2018). Soil erosion is unlikely to drive a future carbon sink in Europe. *Science advances*, 4(11), eaau3523.
20. Ballabio, C., Panagos, P., Lugato, E., Huang, J.-H., Orgiazzi, A., Jones, A., Fernández-Ugalde, O., **Borrelli**, P., Montanarella, L. Copper distribution in European topsoils: An assessment based on LUCAS soil survey (2018) *Science of the Total Environment*, 636, pp. 282-298.
21. **Borrelli**, P., Panagos, P., Lugato, E., Alewell, C., Ballabio, C., Montanarella, L., Robinson, D.A. Lateral carbon transfer from erosion in noncroplands matters (2018) *Global Change Biology*, 24 (8), pp. 3283-3284.
22. Panagos, P., Ballabio, C., Lugato, E., Jones, A., **Borrelli**, P., Scarpa, S., Orgiazzi, A., Montanarella, L. Potential sources of anthropogenic copper inputs to European agricultural soils (2018) *Sustainability* (Switzerland), 10 (7), art. no. 2380.
23. Diodato, N., Mao, L., **Borrelli**, P., Panagos, P., Fiorillo, F., Bellocchi, G. Climate-scale modelling of suspended sediment load in an Alpine catchment debris flow (Rio Cordon-northeastern Italy) (2018) *Geomorphology*, 309, pp. 20-28.
24. **Borrelli**, P., Meusburger, K., Ballabio, C., Panagos, P., Alewell, C. Object-oriented soil erosion modelling: A possible paradigm shift from potential to actual risk assessments in agricultural environments (2018) *Land Degradation and Development*, 29 (4), pp. 1270-1281.
25. Panagos, P., Standardi, G., **Borrelli**, P., Lugato, E., Montanarella, L., Bosello, F. Cost of agricultural productivity loss due to soil erosion in the European Union: From direct cost evaluation approaches to the use of macroeconomic models (2018) *Land Degradation and Development*, 29 (3), pp. 471-484.
26. **Borrelli**, P., Van Oost, K., Meusburger, K., Alewell, C., Lugato, E., Panagos, P. A step towards a holistic assessment of soil degradation in Europe: Coupling on-site erosion with sediment transfer and carbon fluxes (2018) *Environmental Research*, 161, pp. 291-298.

[2017]

27. Yin, S., Nearing, M.A., **Borrelli**, P., Xue, X. Rainfall erosivity: An overview of methodologies and applications (2017) *Vadose Zone Journal*, 16 (12), 16 p.
28. Robinson, D.A., Panagos, P., **Borrelli**, P., Jones, A., Montanarella, L., Tye, A., Obst, C.G. Soil natural capital in Europe; A framework for state and change assessment (2017) *Scientific Reports*, 7 (1), art. no. 6706.

29. **Borrelli**, P., Robinson, D.A., Fleischer, L.R., Lugato, E., Ballabio, C., Alewell, C., Meusburger, K., Modugno, S., Schütt, B., Ferro, V., Bagarello, V., Oost, K.V., Montanarella, L., Panagos, P. An assessment of the global impact of 21st century land use change on soil erosion (2017) *Nature Communications*, 8 (1), art. no. 20131.
30. Panagos, P., **Borrelli**, P., Meusburger, K., Yu, B., Klik, A., Lim, K.J., Yang, J.E., Ni, J., Miao, C., Chattopadhyay, N., Sadeghi, S.H., Hazbavi, Z., Zabihi, M., Larionov, G.A., Krasnov, S.F., Gorobets, A.V., Levi, Y., Erpul, G., Birkel, C., Hoyos, N., Naipal, V., Oliveira, P.T.S., Bonilla, C.A., Meddi, M., Nel, W., Al Dashti, H., Boni, M., Diodato, N., Van Oost, K., Nearing, M., Ballabio, C. Global rainfall erosivity assessment based on high-temporal resolution rainfall records (2017) *Scientific Reports*, 7 (1), art. no. 4175.
31. Nearing, M.A., Yin, S.-Q., **Borrelli**, P., Polyakov, V.O. Rainfall erosivity: An historical review (2017) *Catena*, 157, pp. 357-362.
32. Panagos, P., Ballabio, C., Meusburger, K., Spinoni, J., Alewell, C., **Borrelli**, P. Towards estimates of future rainfall erosivity in Europe based on REDES and WorldClim datasets (2017) *Journal of Hydrology*, 548, pp. 251-262.
33. **Borrelli**, P., Panagos, P., Märker, M., Modugno, S., Schütt, B. Assessment of the impacts of clear-cutting on soil loss by water erosion in Italian forests: First comprehensive monitoring and modelling approach (2017) *Catena*, 149, pp. 770-781.
34. Ballabio, C., **Borrelli**, P., Spinoni, J., Meusburger, K., Michaelides, S., Beguería, S., Klik, A., Petan, S., Janeček, M., Olsen, P., Aalto, J., Lakatos, M., Rymaszewicz, A., Dumitrescu, A., Tadić, M.P., Diodato, N., Kostalova, J., Rousseva, S., Banasik, K., Alewell, C., Panagos, P. Mapping monthly rainfall erosivity in Europe (2017) *Science of the Total Environment*, 579, pp. 1298-1315.
35. **Borrelli**, P., Lugato, E., Montanarella, L., Panagos, P. A New Assessment of Soil Loss Due to Wind Erosion in European Agricultural Soils Using a Quantitative Spatially Distributed Modelling Approach (2017) *Land Degradation and Development*, 28 (1), pp. 335-344.
36. Diodato, N., **Borrelli**, P., Fiener, P., Bellocchi, G., Romano, N. Discovering historical rainfall erosivity with a parsimonious approach: A case study in Western Germany (2017) *Journal of Hydrology*, 544, pp. 1-9.

[2016]

37. **Borrelli**, P., Diodato, N., Panagos, P. Rainfall erosivity in Italy: a national scale spatio-temporal assessment (2016) *International Journal of Digital Earth*, 9 (9), pp. 835-850.
38. Panagos, P., Imeson, A., Meusburger, K., **Borrelli**, P., Poesen, J., Alewell, C. Soil Conservation in Europe: Wish or Reality? (2016) *Land Degradation and Development*, 27 (6), pp. 1547-1551.
39. Modugno, S., Balzter, H., Cole, B., **Borrelli**, P. Mapping regional patterns of large forest fires in Wildland-Urban Interface areas in Europe (2016) *Journal of Environmental Management*, 172, pp. 112-126.
40. Lugato, E., Paustian, K., Panagos, P., Jones, A., **Borrelli**, P. Quantifying the erosion effect on current carbon budget of European agricultural soils at high spatial resolution (2016) *Global Change Biology*, 22 (5), pp. 1976-1984.
41. **Borrelli**, P., Panagos, P., Ballabio, C., Lugato, E., Weynants, M., Montanarella, L. Towards a Pan-European Assessment of Land Susceptibility to Wind Erosion (2016) *Land Degradation and Development*, 27 (4), pp. 1093-1105.
42. Panagos, P., **Borrelli**, P., Poesen, J., Meusburger, K., Ballabio, C., Lugato, E., Montanarella, L., Alewell, C. Reply to "The new assessment of soil loss by water erosion in Europe. Panagos P.

- et al., 2015 *Environ. Sci. Policy* 54, 438-447-A response" by Evans and Boardman [*Environ. Sci. Policy* 58, 11-15] (2016) *Environmental Science and Policy*, 59, pp. 53-57.
43. Panagos, P., **Borrelli**, P., Poesen, J., Meusburger, K., Ballabio, C., Lugato, E., Montanarella, L., Alewell, C. Reply to the comment on "The new assessment of soil loss by water erosion in Europe" by Fiener & Auerswald (2016) *Environmental Science and Policy*, 57, pp. 143-150.
44. Panagos, P., Ballabio, C., **Borrelli**, P., Meusburger, K. Spatio-temporal analysis of rainfall erosivity and erosivity density in Greece (2016) *Catena*, 137, pp. 161-172.
45. **Borrelli**, P., Panagos, P., Langhammer, J., Apostol, B., Schütt, B. Assessment of the cover changes and the soil loss potential in European forestland: First approach to derive indicators to capture the ecological impacts on soil-related forest ecosystems (2016) *Ecological Indicators*, 60, pp. 1208-1220.
46. **Borrelli**, P., Paustian, K., Panagos, P., Jones, A., Schütt, B., Lugato, E. Effect of Good Agricultural and Environmental Conditions on erosion and soil organic carbon balance: A national case study (2016) *Land Use Policy*, 50, pp. 408-421.
47. Panagos, P., **Borrelli**, P., Spinoni, J., Ballabio, C., Meusburger, K., Beguería, S., Klik, A., Michaelides, S., Petan, S., Hrabalíková, M., Olsen, P., Aalto, J., Lakatos, M., Rymaszewicz, A., Dumitrescu, A., Tadić, M.P., Diodato, N., Kostalova, J., Rouseva, S., Banasik, K., Alewell, C. Monthly rainfall erosivity: Conversion factors for different time resolutions and regional assessments (2016) *Water* (Switzerland), 8 (4), art. no. 119.

[2015]

48. Panagos, P., **Borrelli**, P., Poesen, J., Ballabio, C., Lugato, E., Meusburger, K., Montanarella, L., Alewell, C. The new assessment of soil loss by water erosion in Europe (2015) *Environmental Science and Policy*, 54, pp. 438-447.
49. Panagos, P., **Borrelli**, P., Meusburger, K., Alewell, C., Lugato, E., Montanarella, L. Estimating the soil erosion cover-management factor at the European scale (2015) *Land Use Policy*, 48, pp. 38-50.
50. Panagos, P., Meusburger, K., Ballabio, C., **Borrelli**, P., Beguería, S., Klik, A., Rymaszewicz, A., Michaelides, S., Olsen, P., Tadić, M.P., Aalto, J., Lakatos, M., Dumitrescu, A., Rouseva, S., Montanarella, L., Alewell, C. Reply to the comment on "Rainfall erosivity in Europe" by Auerswald et al. (2015) *Science of the Total Environment*, 532, pp. 853-857.
51. Panagos, P., **Borrelli**, P., Robinson, D.A. Common Agricultural Policy: Tackling soil loss across Europe (2015) *Nature*, 526 (7572), p. 195.
52. Panagos, P., **Borrelli**, P., Meusburger, K., van der Zanden, E.H., Poesen, J., Alewell, C. Modelling the effect of support practices (P-factor) on the reduction of soil erosion by water at European scale (2015) *Environmental Science and Policy*, 51, pp. 23-34.
53. Panagos, P., Ballabio, C., **Borrelli**, P., Meusburger, K., Klik, A., Rouseva, S., Tadić, M.P., Michaelides, S., Hrabalíková, M., Olsen, P., Aalto, J., Lakatos, M., Rymaszewicz, A., Dumitrescu, A., Beguería, S., Alewell, C. Rainfall erosivity in Europe (2015) *Science of the Total Environment*, 511, pp. 801-814.
54. **Borrelli**, P., Panagos, P., Montanarella, L. New insights into the geography and modelling of wind erosion in the European agricultural land. Application of a spatially explicit indicator of land susceptibility to wind erosion (2015) *Sustainability* (Switzerland), 7 (7), pp. 8823-8836.

55. Panagos, P., **Borrelli**, P., Meusburger, K. A new European slope length and steepness factor (LS-factor) for modeling soil erosion by water (2015) *Geosciences* (Switzerland), 5 (2), pp. 117-126.
56. **Borrelli**, P., Märker, M., Schütt, B. Modelling Post-Tree-Harvesting soil erosion and sediment deposition potential in the turano river basin (Italian central apennine) (2015) *Land Degradation and Development*, 26 (4), pp. 356-366.
57. **Borrelli**, P., Armenteras, D., Panagos, P., Modugno, S., Schütt, B. The implications of fire management in the andean paramo: A preliminary assessment using satellite remote sensing (2015) *Remote Sensing*, 7 (9), pp. 11061-11082.

[2014]

58. **Borrelli**, P., Domdey, C., Hoelzmann, P., Knitter, D., Panagos, P., Schütt, B. Geoarchaeological and historical implications of late Holocene landscape development in the Carseolani Mountains, central Apennines, Italy (2014) *Geomorphology*, 216, pp. 26-39.
59. **Borrelli**, P., Modugno, S., Panagos, P., Marchetti, M., Schütt, B., Montanarella, L. Detection of harvested forest areas in Italy using Landsat imagery (2014) *Applied Geography*, 48, pp. 102-111.
60. **Borrelli**, P., Schütt, B. Assessment of soil erosion sensitivity and post-timber-harvesting erosion response in a mountain environment of Central Italy (2014) *Geomorphology*, 204, pp. 412-424.
61. **Borrelli**, P., Märker, M., Panagos, P., Schütt, B. Modeling soil erosion and river sediment yield for an intermountain drainage basin of the Central Apennines, Italy (2014) *Catena*, 114, pp. 45-58.
62. **Borrelli**, P., Ballabio, C., Panagos, P., Montanarella, L. Wind erosion susceptibility of European soils. (2014) *Geoderma*, 232-234, pp. 471-478.
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- IPBES Regional Assessment
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