Special Issue

Soil Erosion Monitoring and Modeling

Message from the Guest Editors

Our soils play a crucial role in providing different ecosystem services and functions such as water storage, supply, and regulation, habitats for various species guaranteeing biodiversity, carbon sequestration reducing CO2 in the atmosphere, and last but not least, soils, which are the most significant resource for food production. Soils are fragile resources since their formation can take hundreds–thousands of years. Additionally, soils are threatened by erosion processes that can act quite fast. Soil erosion processes are triggered by water, wind, and human activities mainly related to agriculture, destroying the fertile topsoil layer and creating off-site problems such as reservoir siltation or water and air quality issues. This Special Issue aims to give an overview of studies that assess various soil erosion processes using qualitative and quantitative approaches. Potential areas of interest include but are not limited to, numerical modeling approaches, soil erosion experiments and monitoring techniques, and future scenario analysis leading to the development of soil and water conservation strategies.

Guest Editors

Prof. Dr. Michael Maerker

1. Leibniz Center for Agricultural Landscape Research (ZALF), Müncheberg, Germany
2. Department of Earth and Environmental Sciences, University of Pavia, Pavia, Italy

Prof. Dr. Seyed Hamidreza Sadeghi

1. Department of Watershed Management Engineering, Faculty of Natural Resources, Tarbiat Modares University (TMU), Noor 46417-76489, Mazandaran Province, Iran
2. Department of Earth and Environmental Sciences, University of Pavia, Pavia, Italy

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Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

mdpi.com/journal/water

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In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST
Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

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