

Special Issue

Allocation of Rainwater Harvesting Sites in Catchments

Message from the Guest Editors

Rainwater harvesting is frequently used as low-cost storage of surface water for agro-forestry and urban applications. In the context of a changing climate and water shortage, the storage of rainwater in small reservoirs is expected to gain predominant role even away from the dryer regions. There is already abundant literature on rainwater harvesting both in the urban and rural environments. In the majority of studies, an irrigation project is at the center of the modeling. In fewer cases the optimal sites are meant to serve as irrigation and wildfire combat water resources, among other potential applications. The topic of rainwater harvesting is expanding fast due to the generalized growth of water demand triggered by population growth and social development, and to climate change. The purpose of this Special Issue is therefore to bring modelers, practitioners, water planners and stakeholders into a discussion on the rainwater harvesting subject at the catchment scale and in a changing climate. All types of studies on this topic are welcome, namely new models, applications, implementation projects.

Guest Editors

Dr. Fernando António Leal Pacheco

DG-CQVR-UTAD – Department of Geology, Chemistry Research Centre, University of Trás-os-Montes e Alto Douro, Quinta de Prados, 5001-801 Vila Real, Portugal

Prof. Dr. Luís Filipe Sanches Fernandes

CITAB—Centre for the Research and Technology of Agro-Environment and Biological Sciences, Universidade de Trás-os-Montes e Alto Douro, 5001-801 Vila Real, Portugal

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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Editor-in-Chief

Prof. Dr. Paul B. Tchounwou

RCMI Center for Urban Health Disparities Research and Innovation,
Richard N. Dixon Research Center, Morgan State University, Baltimore,
MD 21251, USA

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