Special Issue

Runoff Water Harvesting for Sustaining Agricultural Productivity and Increasing Food Security

Message from the Guest Editors

In water-limited environments, soil moisture is the major limiting factor for primary productivity. Many times, irrigation of crops in such environments encompasses a major on-farm agronomic input, with the corresponding high ecological, environmental, and economic impacts. In order to reduce these impacts, and considering the prevailing physical conditions, harvesting of runoff water may provide crops with at least some of the required water for allowing successful yield production. Such a strategy is of particular importance given the increase in human populations around the world, with the associated aggravated water scarcity. Moreover, this challenge is further exacerbated if global climatic change is taken into account, with anticipated long, warmer and dryer episodes in extensive parts of the world. Therefore, this Special Issue demonstrates judicious techniques for water runoff harvesting in agricultural systems. It is expected that such systems could operate in an environmentally-friendly mode, simultanously providing water for crops, and sustaining ecosystem services.

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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

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