

Special Issue

The Use of Greywater and Wastewater for Irrigation

Message from the Guest Editors

Global population growth, urbanization, and climate change emphasize the need for new water sources and the vulnerability of water sources to pollution. In rapidly growing urban centers as well as rural areas, the lack of wastewater collection and treatment often hamper its safe reuse. As greywater (GW) is the less polluted stream of domestic wastewater, its onsite treatment and reuse has the potential to benefit users, and on a national scale, to create a new source of water and reduce investment in infrastructure. However, along with its benefits, GW reuse carries potential risks and challenges that cannot be ignored and must be mitigated for safe reuse in general and for irrigation in particular. Topics such as (but limited to):

- implementation of technologies (mostly onsite) for wastewater/greywater treatment;
- pollutants in GW and wastewater;
- antibiotic resistance;
- health and environmental risks characterization;
- risk assessment;
- standards and standardization;
- impact of reuse on soil and plant quality.

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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

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