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The Use of Greywater and Wastewater for Irrigation

Guest Editors:

Prof. Dr. Amit Gross
Department of Environmental Hydrology and Microbiology, Zuckerberg Institute for Water Research (ZIWR), Jacob Blaustein Institutes for Desert Research (BIDR), Ben Gurion University of the Negev (BGU), Sede Boqer Campus 84990, Israel

Prof. Dr. Zeev Ronen
Environmental Hydrology & Microbiology, Zuckerberg Institute for Water Research, Jacob Blaustein Institutes for Desert Research, Ben-Gurion Univresity of the Negev, Be'er Sheva, Israel

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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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Dr. Jean-Luc PROBST
ECOLAB, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, campus ENSAT, Auzeville Tolosane, France

Message from the Editor-in-Chief

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.

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Contact Us

Water Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/water
water@mdpi.com
𝕏@Water_MDPI