



Water Reuse and Environmental Sustainability

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Message from the Guest Editors

Dear Colleagues,

Due to global warming and pollution, the amount of freshwater available to humanity may not be sufficient to meet the growing demand. Recent reflections raise fundamental questions for the environmental management of wastewaters and their reuses and represents one of the biggest challenges that society faces today on a global scale. Wastewater reuse requires a treatment that depends on how the waters will be used. Higher-level uses, such as irrigation of agricultural areas, require a more effective treatment than lower-level uses, such as pasture irrigation. The Special Issue aims to focus on some themes, among many: potential and limits for the reuse of urban wastewater in agriculture and as energy or material resource; technologies for the abatement of persistent organic pollutants, emerging and priority micropollutants; advanced tools for assessing waste water suitability for reuse; role of advanced technologies (IoT, digitalization, , modeling ...); cost analysis and economic sustainability; conflicts and regulatory difficulties in the use of purified water.





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