Special Issue

Decentralized Wastewater Treatment and Resource Recovery

Message from the Guest Editors

Centralized wastewater collection and treatment systems are energy-intensive and costly processes to maintain. Such systems require high investment costs upfront in long-distance wastewater collection systems, which also incur high operation and maintenance expenses and suffer from high water losses and environmental and human health impacts. Several sources in literature are pointing toward a shift from conventional, centralized water services to alternative strategies involving more decentralized reuse, resource efficiency, energy and nutrient recovery, and the flexibility to effectively manage emerging contaminants. This Special Issue aims to address state-of-the-art findings on resource-recovery-based decentralized wastewater services, which address the demands of a reliable technology, economic feasibility, and environmental benefits, as well as transitioning into more sustainable services.

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Editor-in-Chief

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