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Challenges and Opportunities in Wastewater Reuse

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Message from the Guest Editors

Nowadays, it is becoming increasingly clear that urban treated wastewater, whose reuse has become an important component of long-term water resources management worldwide, is a key source of both chemical and biological contaminants of emerging concern (CECs). Current water quality guidelines for reclaimed wastewater predominantly address risks associated with the presence of microbial organisms and chemical parameters, such as Biological Oxygen Demand (BOD), Chemical Oxygen Demand (COD), E. coli, and worms, and in some cases heavy metals, which, however are insufficient for complete risk assessment. Current open challenges related to CECs include (i) their transformation when present in urban wastewater treatment plants and in environmental matrices (soil, groundwater, and surface water), (ii) their accumulation in soil and uptake by plants components, (iii) their biological potency for environmental effects to nontarget organisms, (iv) the evolution and spread of antibiotic resistance determinants, and (v) the development and application of sustainable technologies that are able to remove minimize such microcontaminants wastewater.









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Message from the Editor-in-Chief

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