

## Special Issue

# Promoting Sustainable Urban Water: Advanced Treatment, Reuse, and Tackling Emerging Contaminants

### Message from the Guest Editors

With the increasing challenges of urban water scarcity and emerging contaminant pollution, achieving sustainable urban water management has become a global priority. This Special Issue focuses on advanced treatment technologies, water reuse, and emerging contaminant control to promote sustainable urban water systems. Its scope covers novel technologies such as membrane-based processes (including antifouling and catalytic membranes), mechanistic studies on ion separation and contaminant degradation, and integrated management and resource recovery strategies for urban water systems. The purpose is to collect cutting-edge research and practical innovations that enhance water reuse efficiency, mitigate pollution risks, and support the transition toward circular and resilient urban water systems. Existing literature often addresses treatment, reuse, and resource recovery separately; this Special Issue aims to bridge these domains by linking advanced technologies and emerging contaminant control, offering a holistic framework for sustainable urban water development.

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