Special Issue

Water and Waste Management Strategies and Environmentally Sustainable Approaches

Message from the Guest Editors

This Special Issue investigates innovative strategies, technologies, and frameworks in water and waste management that advance environmental sustainability and resilience.The scope encompasses a wide range of topics, including but not limited to

- Sustainable water treatment and reuse technologies;
- Circular economy models for waste valorization;
- Policy and governance mechanisms for resource efficiency;
- Community-based and nature-based solutions;
- Emerging digital tools such as artificial intelligence (AI), the Internet of Things (IoT), and remote sensing in environmental monitoring and management.

Situated at the intersection of environmental engineering, sustainability science, and urban systems planning, this Special Issue aims to bridge the gap between theoretical research and practical implementation. While prior studies have often examined water and waste systems in isolation, this collection emphasizes their interdependence and the necessity of holistic, systems-oriented approaches.

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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.

Editor-in-Chief

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