Special Issue

Pollution Removal, Carbon Emission Reduction, and AI Empowerment in Wastewater Treatment

Message from the Guest Editors

This Special Issue addresses the pressing challenges of pollution removal and carbon emission reduction in the wastewater treatment sector, while harnessing the transformative potential of artificial intelligence (AI). The overarching focus is on developing integrated approaches that enhance the efficiency and sustainability of wastewater management systems—by examining cutting-edge technologies, innovative processes, and AI-driven optimization strategies, this collection aims to advance both environmental protection and operational excellence. The Special Issue will situate itself within the existing literature by critically evaluating current practices, identifying knowledge gaps, and introducing novel solutions that synergize pollution control with carbon mitigation. Through a multidisciplinary lens, it will explore how AI can empower wastewater treatment facilities to achieve smarter, more adaptive, and resource-efficient operations. [...]

For further reading:
https://www.mdpi.com/journal/water/special_issues/R81VC552XO

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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.

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