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Recent Advances in Efficient Contaminant Removal Technologies for Wastewater

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Message from the Guest Editors

With over two billion people worldwide facing water scarcity, it is crucial to recognize the importance of clean water. Wastewater, often viewed as a waste product, can actually be a valuable resource if properly treated and reused. This Special Issue aims to address the urgent challenges related to natural water contamination and the treatment and reuse of wastewater. The focus of this Special Issue, "Recent Advances in Efficient Contaminant Removal Technologies for Wastewater," is to showcase high-quality research on innovative approaches to managing aquatic environments, with a specific emphasis on advanced treatment methods and sustainable solutions. Some potential topics to be covered include, but are not limited to, the following:

- Homogeneous and heterogeneous advanced oxidation processes.
- Immobilized nanoparticles for contaminant removal.
- Adsorption processes.
- Hydrogel and aerogel technologies.
- Sustainable solutions.
- Production and toxicity of by-products.
- Molecular simulations.
- Pilot-scale systems.

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Message from the Editor-in-Chief

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